Jeffries, Dawn (DEQ)

From:

Jeffries, Dawn (DEQ)

Sent:

Monday, June 15, 2015 2:55 PM

To:

'Don Smiley'

Subject:

Massanutten Public Service Corporation STP, VPDES Permit No. VA0024732, Rockingham

County

Mr. Don Smiley Massanutten Public Service Corporation P.O. Box 51 Elkton, VA 22827

Dear Mr. Smiley:

Your application has been reviewed and appears to be complete pending submittal of the monitoring results for Part D of Form 2A. The waiver you requested from sampling and reporting Total Residual Chlorine has been granted. The next steps involve assembling the information necessary to develop the permit limitations and then drafting the permit. Once the draft permit is prepared and the appropriate reviews are performed, I will transmit the draft permit and supporting documentation to you for review. I expect to have this draft permit package to you within the next 3 months.

The Department of Environmental Quality strives to complete the permitting process in a timely manner. If you have any questions about our procedures or the status of your draft permit, please do not hesitate to contact us.

Sincerely,
Dawn Jeffries
VA Dept. of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801
540-574-7898
dawn.jeffries@deq.virginia.gov

Jeffries, Dawn (DEQ)

From:

Don Smiley [DESmiley@uiwater.com] Thursday, June 11, 2015 3:38 PM

Sent: To:

Jeffries, Dawn (DEQ)

Subject:

RE: NANI and Odor Control Plan

Attachments:

MPSC DT Summary.xlsx

Sure did, attached.

Yes, we use UV and want waiver from TRC.

----Original Message----

From: Jeffries, Dawn (DEQ) [mailto:Dawn.Jeffries@deq.virginia.gov]

Sent: Thursday, June 11, 2015 11:11 AM

To: Don Smiley

Subject: RE: NANI and Odor Control Plan

Don,

Thank you for your quick response. I have had some email trouble in the last day or two; did you get my email asking for the estimated amount of biosolids (dry metric tons) land applied from your facility per year?

Also, are you asking for a waiver for Part B.6 of Form 2A for TRC data since you use UV disinfection at the facility? That is my understanding, but I have to verify.

Sincerely,

Dawn

Dawn Jeffries
VA Dept. of Environmental Quality
Valley Regional Office
P.O. Box 3000
Harrisonburg, Virginia 22801
540-574-7898
dawn.jeffries@deq.virginia.gov

----Original Message----

From: Don Smiley [mailto:DESmiley@uiwater.com]

Sent: Wednesday, June 10, 2015 2:34 PM

To: Jeffries, Dawn (DEQ)

Subject: FW: NANI and Odor Control Plan

----Original Message-----

From: Keith Sampson

Sent: Tuesday, June 09, 2015 11:55 AM

To: Don Smiley

Subject: FW: NANI and Odor Control Plan

Please notice the corrections in red by Tim Grove. Thanks

----Original Message----

From: Tim Grove [mailto:tgrove@idmtrucking.com]

Sent: Tuesday, June 09, 2015 11:40 AM

To: Keith Sampson

Subject: NANI and Odor Control Plan

Keith -

I made comments in red. Call with questions.

Tim

YEAR	GALLONS	SOLIDS:	DRY TONS	DRY METRIC, TONS
2010	876000	1.47	53.70	48.70
2011	1104000	1.48	68.13	61.80
2012	1152000	1.34	64.37	58.38
2013	1254000	1.3	67.98	61.66
2014	1278000	0.78	41.57	37.70

53.65

average

Jeffries, Dawn (DEQ)

From:

Jeffries, Dawn (DEQ)

Sent:

Wednesday, June 03, 2015 9:56 AM

To:

'DESmiley@uiwater.com'

Subject:

FW: Reissuance of VPDES Permit No. VA0024732, Massanutten PSC STP, Rockingham

County

Dear Mr. Smiley,

Thank you for the additional application information you submitted.

The permit reissuance for Massanutten PSC STP has been transferred from Jason Dameron to me, and I have received your permit application and referenced email.

I see in your Form 2A a waiver request for the effluent testing data in Part D, as was granted for previous reissuances. Unfortunately, I cannot grant the waiver again for this reissuance.

The Attachment A sampling results can be used for one of the application scans where parameters are the same, but I will need the three scans before the permit can be written.

Feel free to call if you have any questions.

Sincerely,

Dawn

Dawn Jeffries

VA Dept. of Environmental Quality

Valley Regional Office

P.O. Box 3000

Harrisonburg, Virginia 22801

540-574-7898

dawn.jeffries@deq.virginia.gov

From: Dameron, Jason (DEQ)

Sent: Tuesday, June 02, 2015 4:07 PM

To: Jeffries, Dawn (DEQ)

Subject: FW: Reissuance of VPDES Permit No. VA0024732, Massanutten PSC STP, Rockingham County

Here is the latest from Massanutten.

From: Don Smiley [mailto:DESmiley@uiwater.com]

Sent: Tuesday, May 26, 2015 3:24 PM

To: Dameron, Jason (DEQ)

Subject: Reissuance of VPDES Permit No. VA0024732, Massanutten PSC STP, Rockingham County

Jason,

Part A. - Item A.4. The type of collection system listed as separate, and the ownership listed as private.

Part C. – Original signature provided.

Part D. – Requesting waiver for the expanded effluent testing.

Part E. – Toxicity data provided.

Sewage Sludge Application

Not requesting to keep North River WWTP in sewer permit.

Application Addendum

Item 5. – Removed 2.25 flow tier from addendum.

I will deliver 3 copies of the original signature on part C of application to your office.

Utilities Inc
Don Smiley
Area Manager
Phone 540 289 7088
Fax 540 289-6173
Cell 301 536 8176
desmiley@uiwater.com



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Molly Joseph Ward Secretary of Natural Resources VALLEY REGIONAL OFFICE
4411 Early Road, P.O. Box 3000, Harrisonburg, Virginia 22801
(540) 574-7800 Fax (540) 574-7878
www.deg.virginia.gov

David K. Paylor Director

Amy Thatcher Owens Regional Director

May 14, 2015 - VIA EMAIL

Mr. Don Smiley
Massanutten Public Service Corporation
P.O. Box 51
Elkton, VA 22827

Re: VPDES Permit No. VA0024732, Massanutten Public Service Corporation STP, Rockingham County

Dear Mr. Smiley:

Your VPDES permit reissuance application is considered incomplete. Please provide the following information to complete the application and allow the permit processing to continue.

FORM 2A

Part A. - Item A.4. The type of collection system should be listed as separate, and the ownership should be listed as private.

Part C. – Please provide an original signature.

Part D. – For the expanded effluent testing data, at least 3 pollutants scans are required. The application included data for the majority of these parameters in the form of Attachment B. Please provide data for the remaining 2 pollutant scans or request a waiver and provide the justification.

Part E. – Toxicity data was not provided as part of the application. Please provide the requested data or request a waiver and provide the justification.

Sewage Sludge Application

Part I.1. – The previous permit application included the option of transporting sewage sludge to the North River WWTP. Please complete this section if you would still like for that option to be included in the permit.

Part I.6.c. – Please provide a copy of any information you provide to the receiving facility to comply with the notice and necessary information requirement.

Application Addendum

Item 5. – The previous permit contains flow tiers of 0.95 MGD, 1.5 MGD, and 2.0 MGD. As in the previous application addendum, a flow tier of 2.25 MGD has also been requested. The flow tier request was removed from the previous application due to a lack of stream model associated with that tier. Massanutten previously provided a regional stream model for the current flow tiers. If the flow tier of 2.25 MGD is still warranted, please provide a stream model for the additional flow tier, or indicate how you wish to proceed with the additional tier.

According to your current permit, your complete application for reissuance is due at least 180 days before the permit expires, or by *June 3, 2015*. You are hereby requested to make the necessary corrections and/or provide additional information prior to this date in order to eliminate the deficiencies outlined above. Processing of your VPDES Permit application will not begin until these deficiencies are addressed. In the event that your VPDES permit expires as a result of your failure to reapply in a timely manner, your facility will be considered as "discharging without a valid VPDES permit", which is a violation of the State Water Control Law and state regulations.

Please submit a corrected original application and three copies to this office and one copy to the Virginia Department of Health, Office of Water Programs, Environmental Engineering Field Office, 131 Walker Street, Lexington, Virginia 24450-2431. The Department of Health may be providing additional comments for your consideration. Please contact them before proceeding.

If you have any questions concerning this letter or if I may be of further assistance, please contact me (540) 574-7824.

Sincerely,

Jason R. Dameron Water Permit Writer

Enclosure

cc: VDH-Lexington

Permit Processing File

VPDES Permit Application Addendum

1.	
	Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
2.	Is this facility located within city or town boundaries? YES NO Include a topographic map identifying the location of the facility, the property boundaries, and the discharge point.
3.	What is the tax map parcel number for the land where this facility is located? 730-36-128-A-4D
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? None
5.	ALL FACILITIES: What is the design average flow of this facility? 1.5 MGD Industrial facilities: What is the maximum 30-day avg. production level (include units)? n/a
	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? YES NO
	If "Yes", please specify the other flow tiers (in MGD) or production levels: 0.95, 1.5, 2.0, MGD Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years?
6.	Nature of operations generating wastewater: Domestic Wastewater
	100% of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: ☐ 0 ☐ 1-49 ☑ 50 or more
	0 % of flow from non-domestic connections/sources
7	Mode of discharge: ✓ Continuous ☐ Intermittent ☐ Seasonal Describe frequency and duration of intermittent or seasonal discharges:
8.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point: ✓ Permanent stream, never dry ☐ Intermittent stream, usually flowing, sometimes dry ☐ Ephemeral stream, wet-weather flow, often dry ☐ Effluent-dependent stream, usually or always dry ☐ Lake or pond at or below the discharge point ☐ Other:
9.	Consent to receive electronic mail The Department of Environmental Quality (DEQ) may deliver permits, certifications and plan approvals to recipients, including applicants or permittees, by electronically certified mail where the recipients notify DEQ of their consent to receive mail electronically (§ 10.1-1183). Check <i>only one</i> of the following to consent to or decline receipt of electronic mail from DEQ as follows:
	Applicant or permittee agrees to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity, and to certify receipt of such electronic mail when requested by the DEQ. Please provide email: desmiley@uiwater.com tlsharp@uiwater.com ambenton@uiwater.com
	Applicant or permittee declines to receive by electronic mail the permit and any plan approvals associated with the permit that may be issued for the proposed pollutant management activity.

Massanutten Public Service Corporation VA 0024732

Form Approved 1/14/99 OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PAR	RT A. BASIC APPL	ICATION INF	ORMATION FOR ALL	APPLICANTS:			
All tı	reatment works mus	t complete ques	tions A.1 through A.8 o	this Basic Application	n Information pac	ket.	44,104,20
A,1.	Facility Information	1.					-
	Facility name	Massanutten	Public Service Corpora	ation		·	•
	Mailing Address	PO Box 51 El	kton Virginia 22827				
	Contact person	Don Smiley				· · · · · · · · · · · · · · · · · · ·	
	Title	Area Manage	r				
	Telephone number	(540) 289-708	88				
	Facility Address (not P.O. Box)	1550 resort D	rive Mcgaheysville Virg	iinia 22840			
A.2.	Applicant Informati	on. If the applica	ant is different from the ab	oove, provide the following	ng:		
	Applicant name	Same as above	/e				
	Mailing Address						
	Contact person	Don Smiley		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	A
	Title.	Area Manage					 .
	Telephone number	(540) 289-708	8	<u> </u>		we see a see a see a see a	· · · · · ·
	Is the applicant the	owner or opera	tor (or both) of the treat	ment works?			
	Indicate whether con	respondence reg	- arding this permit should l	be directed to the facility	or the applicant.		
	facility		applicant				
Ä,3.	Existing Environme works (include state-		rovide the permit number	of any existing environn	nental permits that	have been issued to the tro	eatment `
	NPDES <u>0024732</u>			_ PSD			
	ŰĬC			_ Other	VAN 010039		
	ŘCRA			_ Other			
A.4.						Provide the name and popi d its ownership (municipal	
	Name		Population Served	Type of Collect	ion System	Ownership	
	Massanutten Reso	ort	5235	Separate	, 	Private	
						· · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	Total pop	oulation served	5235				

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Massanutten Public Service Corporation VA 0024732 A.5. Indian Country. a. Is the treatment works located in Indian Country? b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country? Yes A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal. 1.5 mad Design flow rate Two Years Ago Last Year This Year Annual average daily flow rate .798 .654 .893 mgd Maximum daily flow rate 1.70 1.44 1.38 mgd A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each. Separate sanitary sewer Combined storm and sanitary sewer A.8. Discharges and Other Disposal Methods. a. Does the treatment works discharge effluent to waters of the U.S.? If yes, list how many of each of the following types of discharge points the treatment works uses: i. Discharges of treated effluent Discharges of untreated or partially treated effluent iii. Combined sewer overflow points iv. Constructed emergency overflows (prior to the headworks) v. Other 002 emergency discharge never used Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? If yes, provide the following for each surface impoundment: Location: Annual average daily volume discharged to surface impoundment(s) Is discharge continuous or c. Does the treatment works land-apply treated wastewater? If yes, provide the following for each land application site: Location:

intermittent?

Annual average daily volume applied to site:

continuous or

d. Does the treatment works discharge or transport treated or untreated wastewater to another

Number of acres:

Is land application

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

N/A		
If transport is by a pa	rty other than the applicant, provide:	
Transporter name:	N/A	
Mailing Address:		
·		•
Contact person:	<u>N/A</u> .	
Title:		
Telephone number:		
•		
For each treatment w	orks that receives this discharge, provide the following:	*
Name:	N/A	
Mailing Address:		
Contact person:	N/A	
Title:		
Telephone number:		
•	NPDES permit number of the treatment works that receives this discharge.	
	daily flow rate from the treatment works into the receiving facility.	NA mg
Does the treatment w A.8.a through A.8.d a	orks discharge or dispose of its wastewater in a manner not included in bove (e.g., underground percolation, well injection)?	es No
If yes, provide the fol	lowing <u>for each disposal method</u> :	
Description of metho	d (including location and size of site(s) if applicable):	
Annual daily volume	disposed of by this method:	<u>-</u> -
· · · · · · · · · · · · · · · · · · ·		•

Massanutten Public Service Corporation VA 0024732

Form Approved 1/14/99 OMB Number 2040-0086

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

	De	scription of Outfall.			
	a.	Outfall number	00:1		
	b.	Location	Mcgał	neysville	22840
			(City o	r town, if applicable)	(Zip Code) Virginia
				ngham tý)	(State)
				ty) 18.43 N	78 42 43.u71W
			(Latitu	de)	(Longitüde)
	C.	Distance from shore	(if applicat	ole)	<u>0</u> ft.
	d.	Depth below surface	(if applica	ble)	O ft.
	_	Augraga daily flavy sa	.		
	e.	Average daily flow ra	te		
	f.	Does this outfall have	e either an	intermittent or a	
		periodic discharge?			Yes No (go to A.9.g.)
		If you was date the fell			No (go to A.s.g.)
		If yes, provide the following	lowing into	ormation:	
		Number of times per	vear disch	narge occurs:	
		Average duration of e			· · ·
		_		arge.	
		Average flow per disc	•		mgd
		Months in which disc	harge occi	ürs:	
	_	lo outfoll oquipped ut	th a diffus	or?	Yes ✓ No
	g.	Is outfall equipped wi	in a dinus	CI :	res No
	_				
10.	. De	scription of Receivin	g Waters.	•	
	a.	Name of receiving wa	ater	Quail Run	
		riams or recoming me			
	b.	Name of watershed (if known)		Shenandoah river/Potomac
	~.	Manie of Watersheu (
	Ψ.	Name of watershed (
	~.			n Service 14-digit w	vatershed code (if known): 020700050804
	-	United States Soil Co	onservation	_	
	C.		onservation	_	
		United States Soil Co	onservation gement/Ri	ver Basin (if known)	Shenandoah
		United States Soil Co	onservation gement/Ri	ver Basin (if known)	
	C.	United States Soil Co Name of State Manag United States Geolog	onservation gement/Ri gical Surve	ver Basin (if known) ey 8-digit hydrologic	Shenandoah c cataloging unit code (if known): HUC PS35
	C.	United States Soil Co	onservation gement/Ri gical Surve ceiving str	ver Basin (if known) ey 8-digit hydrologic	Shenandoah c cataloging unit code (if known): HUC PS35
	c.	United States Soil Co Name of State Manage United States Geolog Critical low flow of reacute 0.02 M	onservation gement/Ri gical Surve ceiving str MGD	ver Basin (if known) y 8-digit hydrologic eam (if applicable): cfs	Shenandoah c cataloging unit code (if known): Chronic 0.03 MGD cfs
	c.	United States Soil Co Name of State Manage United States Geolog Critical low flow of reacute 0.02 M	onservation gement/Ri gical Surve ceiving str MGD	ver Basin (if known) y 8-digit hydrologic eam (if applicable): cfs	Shenandoah c cataloging unit code (if known): HUC PS35
	c.	United States Soil Co Name of State Manage United States Geolog Critical low flow of reacute 0.02 M	onservation gement/Ri gical Surve ceiving str MGD	ver Basin (if known) y 8-digit hydrologic eam (if applicable): cfs	Shenandoah c cataloging unit code (if known): Chronic 0.03 MGD cfs
	c.	United States Soil Co Name of State Manage United States Geolog Critical low flow of reacute 0.02 M	onservation gement/Ri gical Surve ceiving str MGD	ver Basin (if known) y 8-digit hydrologic eam (if applicable): cfs	Shenandoah c cataloging unit code (if known): Chronic 0.03 MGD cfs

	reatment.										
a. What levels o	f treatment a	ıre provi	ded? Ct	neck all that	apply.	•				•	
F	rimary			√ Sec	ondary						
/	dvanced			√ Oth	er. Describe:	Nitrogen re	moval				
b. Indicate the f	ollowing remo	oval rate	s (as ar	oplicable):							
Design BOD	removal or [Design C	BOĎ² u	emoval		96			%	•	
Design SS re	moval					88			<u> </u>		
Design P ren	ioval					<u>71</u>			%		
Design N ren	noval					80			%		
Other			_			- į			<u> </u>		
c. What type of	disinfection i	s used fo	or the ef	ffluent from	this outfall? If dis	sinfection varies	by seasor	n, ple	ease describe	€.	
<u>Ultra Violet</u>	Light Disin	fection								- **	
If disinfection	is by chlorin	ation, is	dechlori	ination used	d for this outfall?	· _		Yes	s	√.	No
d. Does the trea	tment plant h	nave pos	st aeratio	on?		_	√	Yes	s		No
	not include h analysis c	onduct	ed using	g 40 CFR P	Part 136 method	s. In addition,	this data	mus	st comply wi	th Q/	A/QC requirements
discharged. Do collected throug of 40 CFR Part 1	not include h analysis o 36 and othe ffluent testi	onductor appropries	ed using priate Q must be	g 40 CFR P QA/QC requ e based on	Part 136 method irements for sta	s. In addition, andard method	this data is for anal ust be no	mus lytes moi	st comply wit s not address	th Q/ sed b and c	A/QC requirements by 40 CFR Part 136. one-half years apart
discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number:	not include h analysis o 36 and othe ffluent testi	onductor appropries	ed usin priate Q must be M Va 7.37	g 40 CFR P DA/QC requ e based on DAXIMUM D	Part 136 method irrements for state at least three s	s. In addition, andard method amples and m	this data is for anal ust be no	mus lytes moi	st comply with a not address re than four a	th Q/ sed b and c	A/QC requirements by 40 CFR Part 136. one-half years apart
discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number:	not include h analysis o 36 and othe ffluent testi	onductor appropries	ed using priate Q must be M Va 7.37	g 40 CFR P DA/QC require based on MAXIMUM D	Part 136 method irrements for sta at least three s AILY VALUE Units s.u. s.u.	s. In addition, andard method amples and me	this data is for anal ust be no	mus lytes moi	st comply with a not address re than four a tage DAILY Units	VALU	A/QC requirements by 40 CFR Part 136. one-half years apart
discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number: PARAME	not include h analysis o 36 and othe ffluent testi	onduct r approing data	M Va 7.37 7.66	g 40 CFR P DA/QC require based on IAXIMUM D	Part 136 method irrements for sta at least three s AILY VALUE Units s.u. s.u.	value	this data s for anal ust be no	west with the second se	est comply wis not address re than four a care than four	VALU	A/QC requirements by 40 CFR Part 136. one-half years apart JE Number of Samples
discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number: PARAME PH (Minimum) PH (Maximum) Flow Rate Temperature (Winter)	not include h analysis o 36 and othe ffluent testin	conductor appropriate data	M Va 7.37 7.66 1.44 20.7	g 40 CFR P DA/QC require based on MAXIMUM D	Part 136 method irrements for sta i at least three s AILY VALUE Units s.u. s.u. MGD Deg C	Value .798 11.56	this data s for anal ust be no	was must be the second of the	est comply wis not address re than four a care than four	VALU 365	A/QC requirements by 40 CFR Part 136. one-half years apart
discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number: PARAME PH (Minimum) pH (Maximum) Flow Rate Temperature (Winter) Temperature (Summer	not include h analysis of 36 and other fluent testin	onduct r appro ng data	M Va 7.37 7.66 1.44 20.7 24.5	g 40 CFR P DA/QC require based on	Part 136 method irrements for state at least three	value	this data s for anal ust be no	west with the second se	est comply wis not address re than four a care than four	VALU	A/QC requirements by 40 CFR Part 136. one-half years apart
discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number: PARAME PH (Minimum) PH (Maximum) Flow Rate Temperature (Winter)	not include h analysis o 36 and othe ffluent testin	num and	M Va 7.37 7.66 1.44 20.7 24.5	g 40 CFR P DA/QC require based on IAXIMUM D alue	Part 136 method irrements for sta i at least three s AILY VALUE Units s.u. s.u. MGD Deg C Deg C	Value .798 11.56	this data s for analust be no	was must be the second of the	est comply wis not address re than four a care than four	VALU N 365 182 183	A/QC requirements by 40 CFR Part 136. one-half years apart
discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number: PARAME PH (Minimum) PH (Maximum) Flow Rate Temperature (Winter) Temperature (Summer * For pH please re	not include h analysis o 36 and othe ffluent testin	num and	M Va 7.37 7.66 1.44 20.7 24.5 a maximum	g 40 CFR P DA/QC require based on IAXIMUM D alue	Part 136 method irrements for sta i at least three s AILY VALUE Units s.u. s.u. MGD Deg C Deg C	Value .798 11.56 19.85	this data s for analust be no	WER WER Oeg Oeg	than four a comply with a not address re than four a comply with a comply with a complex compl	VALU N 365 182 183	A/QC requirements by 40 CFR Part 136. one-half years apart JE Number of Samples
discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number: PARAME PH (Minimum) PH (Maximum) Flow Rate Temperature (Winter) Temperature (Summer * For pH please re	not include h analysis of 36 and othe ffluent testin TER eport a minin	num and M.	M. Va. 7.37 7.66 1.44 20.7 24.5 1a maximum AXIMUM DISCH/	g 40 CFR P DA/QC require based on MAXIMUM D alue I I I I I I I I I I I I I I I I I I	Part 136 method irrements for sta i at least three s AILY VALUE Units S.U. S.U. MGD Deg C Deg C value AVERAG	Value .798 11.56 19.85	this data s for analust be no A	WER WER Oeg Oeg	than four a comply with a not address re than four a comply with a comply with a complex compl	VALU N 365 182 183	A/QC requirements by 40 CFR Part 136. one-half years apart JE Number of Samples
discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number: PARAME PH (Minimum) PH (Maximum) Flow Rate Temperature (Winter) Temperature (Summer * For pH please r POLLUTAN	not include h analysis of 36 and other ffluent testing	num and M.	M Va 7.37 7.66 1.44 20.7 24.5 I a maximum DISCH/	g 40 CFR P DA/QC require based on MAXIMUM D alue I I I I I I I I I I I I I I I I I I	Part 136 method irrements for sta i at least three s AILY VALUE Units S.U. S.U. MGD Deg C Deg C value AVERAG	Value .798 11.56 19.85	this data s for analust be no A	week week week week week week week week	than four a comply with a not address re than four a comply with a comply with a complex compl	VALU 365 182 183	A/QC requirements by 40 CFR Part 136. one-half years apart JE Number of Samples
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discharged. Do collected throug of 40 CFR Part 1 At a minimum, e Outfall number: PARAME PH (Minimum) PH (Maximum) Flow Rate Temperature (Winter) Temperature (Summer * For pH please r POLLUTAN CONVENTIONAL AND BIOCHEMICAL OXYGEN	not include h analysis of 36 and other ffluent testing	num and M. Co	M Va 7.37 7.66 1.44 20.7 24.5 I a maximum DISCH/	g 40 CFR P DA/QC require based on IAXIMUM D alue I mum daily v M DAILY ARGE Units IPOUNDS.	Part 136 method irrements for state at least three	Value Value .798 11.56 19.85 GE DAILY DISC Units	this data s for analust be no AA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	week week week week week week week week	than four a service of the service o	VALU 365 182 183 AL	A/QC requirements by 40 CFR Part 136. One-half years apart. JE Number of Samples ML / MDL

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ВА	S	C APPLICATION INFORMATION
PAR	Ţ	B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
All a	ppli	cants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.	lr	iflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. 80,636 gpd
	В	riefly explain any steps underway or planned to minimize inflow and infiltration.
	<u>.</u> C	continue I&I investigation projects consisting of CCTV, CIP lining, lateral and manhole rehabilitation
	_	
B.2.	ŢI	ppographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. his map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show e entire area.)
	a.	The area surrounding the treatment plant, including all unit processes.
	b.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	C,	Each well where wastewater from the treatment plant is injected underground.
	d.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e.	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
	ba chl	ocess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all ckup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., orination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily wrates between treatment units. Include a brief narrative description of the diagram.
B.4.	Οp	peration/Maintenance Performed by Contractor(s).
		e any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a ntractor?YesNo
		es, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional ges if necessary).
	Na	me: <u>N/A</u>
	Ma	illing Address:
	Te	lephone Number:
	Řė	sponsibilities of Contractor:
	un tre	heduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or completed plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the atment works has several different implementation schedules or is planning several improvements, submit separate responses to question of for each. (If none, go to question B.6.)
	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
	b.	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
		YesNo

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	N/A	J.D 10 100, D.	iefly describe, inc			- Tato (ii applica	· .						
	Provide dates impo applicable. For im- applicable. Indicat	provements pla	anned independe	e schedule or any actual dates of completion for the implementation steps listed below, as idependently of local, State, or Federal agencies, indicate planned or actual completion dates, as as possible.									
			Schedule) . ,	Actual Completic	on .							
	Implementation Sta	age	MM / DD	/ YYYY	YYY MM / DD / YYYY		•						
	Begin construction	•	09./ 14./		09 / 14 / 2007								
	- End construction		02 / 15	2008	02 / 15 / 2008								
	- Begin discharge												
	- Attain operationa	ıl level											
e.	Have appropriate p	permits/clearar	nces concerning o	other Federal/Sta	ate requirements	been obtained?	'Yes	_No					
	Describe briefly:	Sludge holdi		old. Improvemi									
	LUENT TESTING D												
		11. 7 ul il il oli il oli il oli	on reported mad	C DC DGCCG G., G.		agii aiiaiyala co	nducted using 40 CFF	, ,					
met star poll Out	nods. In addition, to addition, to add methods for a utant scans and mufall Number: 001	analytes not ad ust be no more	Idressed by 40 C	FR Part 136. At ne-half years old	a minimum, efflu	uent testing data	ppropriate QA/QC req must be based on at	juirements for least three					
met star poll Out	ndard methods for a utant scans and mu fall Number: 001	analytes not ad ust be no more	ldressed by 40 C than four and or	FR Part 136. At ne-half years old	a minimum, efflu	uent testing data	ANALYTICAL METHOD	uirements for least three					
met star poll Out	ndard methods for a utant scans and mu fall Number: 001 DLLUTANT	MAXIN DISC	Idressed by 40 C than four and or MUM DAILY CHARGE Units	FR Part 136. At ine-half years old AVER.	a minimum, effic	CHARGE	must be based on at	least three					
met star poll Out Po	ndard methods for a utant scans and mu fall Number: 001 DLLUTANT	MAXIN DISC	Idressed by 40 C than four and or MUM DAILY CHARGE Units IAL COMPOUNE	FR Part 136. At ine-half years old AVER. Conc.	AGE DAILY DISC	CHARGE Number of Samples	ANALYTICAL METHOD	ML / MDL					
met star poll Out Po CONVENT	ndard methods for a utant scans and mu fall Number: 001 DLLUTANT TIONAL AND NON (as N)	MAXIN DISC	Idressed by 40 C than four and or MUM DAILY CHARGE Units	FR Part 136. At ine-half years old AVER.	a minimum, effic	CHARGE	must be based on at	least three					
met star poll Out PO CONVENT AMMONIA CHLORINI RESIDUAI	ndard methods for a utant scans and mu fall Number: 001 DLLUTANT TIONAL AND NON (as N)	MAXIN DISI Conc. CONVENTION .10	Idressed by 40 C than four and or MUM DAILY CHARGE Units IAL COMPOUND MG/L N/A	AVER. Conc. CQL N/A	AGE DAILY DISC Units MG/L N/A	CHARGE Number of Samples 6 N/A	ANALYTICAL METHOD EPA350.1.Rev.2	ML / MDL .10 N/A					
Met star poll Out PC CONVENTAMMONIA CHLORINI RESIDUAL DISSOLVE	ndard methods for a utant scans and mu fall Number: 001 DLLUTANT TIONAL AND NON (as N) E (TOTAL L, TRC)	MAXINDIS Conc. CONVENTION .10 N/A	MUM DAILY CHARGE Units MG/L N/A MG/L	AVERA Conc. CQL N/A 10.69	AGE DAILY DISC Units MG/L N/A MG/L	CHARGE Number of Samples 6 N/A 8	ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G	ML / MDL .10 N/A					
met star poll Out PO CONVENT AMMONIA CHLORINI RESIDUAL DISSOLVE TOTAL KJ NITROGE	ndard methods for a utant scans and mufall Number: 001 DLLUTANT TIONAL AND NON (as N) E (TOTAL L, TRC) ED OXYGEN ELDAHL N (TKN)	MAXIM DISS Conc. CONVENTION .10 N/A 11.23	MUM DAILY CHARGE Units MG/L N/A MG/L MG/L MG/L	AVERA Conc. CQL N/A 10.69 .68	AGE DAILY DISC Units MG/L N/A MG/L MG/L	CHARGE Number of Samples 6 N/A 8 6	ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G 4500NH3D97	ML / MDL .10 N/A .10					
met star poll Out Poll CHLORINI RESIDUAL DISSOLVE TOTAL KJ NITROGE NITRATE NITROGE	ridard methods for a utant scans and mufall Number: 001 DLLUTANT TIONAL AND NON (as N) E (TOTAL L, TRC) ED OXYGEN ELDAHL N (TKN) PLUS NITRITE N	MAXINDIS Conc. CONVENTION .10 N/A	MUM DAILY CHARGE Units MG/L N/A MG/L	AVERA Conc. CQL N/A 10.69	AGE DAILY DISC Units MG/L N/A MG/L	CHARGE Number of Samples 6 N/A 8	ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G	ML / MDL .10 N/A .10 .10 .50					
Met star poll Out Poll CONVENT AMMONIA CHLORINI RESIDUAL TOTAL KJ NITROGE NITRATE NITROGE OIL and G	ndard methods for a utant scans and mufall Number: 001 DLLUTANT TIONAL AND NON (as N) E (TOTAL L, TRC) ED OXYGEN ELDAHL N (TKN) PLUS NITRITE N REASE	MAXIM DISS Conc. CONVENTION .10 N/A 11.23	MUM DAILY CHARGE Units MG/L N/A MG/L MG/L MG/L	AVERA Conc. CQL N/A 10.69 .68	AGE DAILY DISC Units MG/L N/A MG/L MG/L	CHARGE Number of Samples 6 N/A 8 6	ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G 4500NH3D97	ML / MDL .10 N/A .10					
met star poll Out Procession Convent AMMONIA CHLORINI RESIDUAL DISSOLVE TOTAL KJ. NITROGE NITRATE NITROGE OIL and G	ndard methods for a utant scans and mufall Number: 001 DLLUTANT TIONAL AND NON (as N) E (TOTAL L, TRC) ED OXYGEN ELDAHL N (TKN) PLUS NITRITE N REASE DRUS (Total)	MAXIM DISI Conc. CONVENTION .10 N/A 11.23 1.7	MUM DAILY CHARGE Units MG/L MG/L MG/L MG/L MG/L	AVER. Conc. CONC. VAID N/A 10.69 .68 8.68	AGE DAILY DISC Units MG/L N/A MG/L MG/L MG/L	CHARGE Number of Samples 6 N/A 8 6 6	ANALYTICAL METHOD EPA350.1.Rev.2 ūv disinfection 4500-O G 4500NH3D97 EPA 300.0,rev2.1	ML / MDL .10 N/A .10 .10 .50					
met star poll Out Procession of the Convent AMMONIA CHLORINI RESIDUAL DISSOLVE TOTAL KJ NITROGE NITRATE NITROGE OIL and GOPHOSPHOTAL DISTALL D	ridard methods for a utant scans and mutant scans and sca	MAXIM DISS Conc. CONVENTION .10 N/A 11.23 1.7 16.7 <ql< td=""><td>MUM DAILY CHARGE Units MG/L MG/L MG/L MG/L MG/L MG/L MG/L</td><td>AVERA Conc. CONC. OS. <ql .68="" 10.69="" 8.68="" <ql<="" a="" n="" td=""><td>AGE DAILY DISC Units MG/L N/A MG/L MG/L MG/L MG/L MG/L</td><td>CHARGE Number of Samples 6 N/A 8 6 6 3</td><td>ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G 4500NH3D97 EPA 300.0,rev2.1 1664A</td><td>ML / MDL .10 N/A .10 .10 .50</td></ql></td></ql<>	MUM DAILY CHARGE Units MG/L MG/L MG/L MG/L MG/L MG/L MG/L	AVERA Conc. CONC. OS. <ql .68="" 10.69="" 8.68="" <ql<="" a="" n="" td=""><td>AGE DAILY DISC Units MG/L N/A MG/L MG/L MG/L MG/L MG/L</td><td>CHARGE Number of Samples 6 N/A 8 6 6 3</td><td>ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G 4500NH3D97 EPA 300.0,rev2.1 1664A</td><td>ML / MDL .10 N/A .10 .10 .50</td></ql>	AGE DAILY DISC Units MG/L N/A MG/L MG/L MG/L MG/L MG/L	CHARGE Number of Samples 6 N/A 8 6 6 3	ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G 4500NH3D97 EPA 300.0,rev2.1 1664A	ML / MDL .10 N/A .10 .10 .50					
Met star poll Out Pro CONVENT AMMONIA CHLORINI RESIDUAL TOTAL KJ. NITROGE NITRATE NITROGE OIL and G	ridard methods for a utant scans and mutant scans and sca	MAXIN DISS Conc. CONVENTION .10 N/A .11.23 .1.7 .16.7 . <ql .2.29<="" td=""><td>Idressed by 40 C I than four and or MUM DAILY CHARGE Units MG/L N/A MG/L MG/L MG/L MG/L MG/L MG/L MG/L</td><td>AVER. Conc. CONC. AVER. CONC. AVER. CONC. AVER. CONC. AVER. CONC. AVER. CONC. 10.69 .68 8.68 <ql 1.27<="" td=""><td>AGE DAILY DISC Units MG/L N/A MG/L MG/L MG/L MG/L MG/L MG/L</td><td>CHARGE Number of Samples 6 N/A 8 6 6 3 6</td><td>ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G 4500NH3D97 EPA 300.0,rev2.1 1664A 4500-P BE-1999</td><td>ML / MDL .10 N/A .10 .10 .50 .500 .25</td></ql></td></ql>	Idressed by 40 C I than four and or MUM DAILY CHARGE Units MG/L N/A MG/L MG/L MG/L MG/L MG/L MG/L MG/L	AVER. Conc. CONC. AVER. CONC. AVER. CONC. AVER. CONC. AVER. CONC. AVER. CONC. 10.69 .68 8.68 <ql 1.27<="" td=""><td>AGE DAILY DISC Units MG/L N/A MG/L MG/L MG/L MG/L MG/L MG/L</td><td>CHARGE Number of Samples 6 N/A 8 6 6 3 6</td><td>ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G 4500NH3D97 EPA 300.0,rev2.1 1664A 4500-P BE-1999</td><td>ML / MDL .10 N/A .10 .10 .50 .500 .25</td></ql>	AGE DAILY DISC Units MG/L N/A MG/L MG/L MG/L MG/L MG/L MG/L	CHARGE Number of Samples 6 N/A 8 6 6 3 6	ANALYTICAL METHOD EPA350.1.Rev.2 uv disinfection 4500-O G 4500NH3D97 EPA 300.0,rev2.1 1664A 4500-P BE-1999	ML / MDL .10 N/A .10 .10 .50 .500 .25					

FACILITY NAME AND P	PERMIT NUMBER:			Form Approved 1/14/99 OMB Number 2040-0086
Massanutten Public Se	ervice Corporation VA 002	24732		OMB Number 2040-0080
BASIC APPLICA	ATION INFORMAT	ION		
PART C. CERTIFICA	TION			
applicants must complete have completed and are	e all applicable sections of Fo	orm 2A, as explained in the Apertification statement, applica	oplication Overview. Indicate be	ourposes of this certification. All elow which parts of Form 2A you wed Form 2A and have completed
Indicate which parts of	Form 2A you have comple	ted and are submitting:		RECEIVED
Basic Applic	cation Information packet	Supplemental Application		DEQ - Valley
	•	Part D (Expanded	Effluent Testing Data)	MAY 2 9 2015
			esting: Biomonitoring Data)	
		Part F (Industrial	User Discharges and RCRA	RCLA Wastes)
		Part G (Combined	Sewer Systems) FIL	E:
N				
	ST COMPLETE THE FOLLO			
designed to assure that of who manage the system	qualified personnel properly of or those persons directly res d complete. I am aware that	gather and evaluate the inform ponsible for gathering the info	nation submitted. Based on my ormation, the information is, to t	on in accordance with a system inquiry of the person or persons he best of my knowledge and a including the possibility of fine
Name and official title	Don Smiley Area Manag	er		
Signature	Das	iner		
Telephone number	(540) 289-7088			· ·
Date signed	05/01/2015	<u></u>	to the second se	· · · · · · · · · · · · · · · · · · ·
	nitting authority, you must su tate permitting requirements		cessary to assess wastewater to	reatment practices at the treatment

SEND COMPLETED FORMS TO:

Massanutten Public Service Corporation VA 0024732

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: request waiver (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units Mass Units Conc. Units Mass Units Number ANALYTICAL ML/ MDL **METHOD** Samples METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS. ANTIMONY ARSENIC BERYLLIUM CADMIUM CHROMIUM COPPER LEAD MERCURY NICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS HARDNESS (AS CaCO₃) Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.

Outfall number:									the United S	States.)					
POLLUTANT		DISCH	JM DAIL' HARGE				DAILY			ANTAL VETTO AL					
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	WL/ WDF				
VOLATILE ORGANIC COMPOUNDS.				-					·						
ACROLEIN	,														
ACRYLONITRILE									,						
BENZENE															
BROMOFORM															
CARBON TETRACHLORIDE								,							
CLOROBENZENE															
CHLORODIBROMO-METHANE															
CHLOROETHANE									15.470						
2-CHLORO-ETHYLVINYL ETHER															
CHLOROFORM															
DICHLOROBROMO-METHANE		٠,			,										
1;1-DICHLOROETHANE															
1,2-DICHLOROETHANE										<u>-</u>					
TRANS-1,2-DICHLORO-ETHYLENE															
1,1-DICHLOROETHYLENE	,														
1,2-DICHLOROPROPANE									,						
1,3-DICHLORO-PROPYLENE															
ETHYLBENZENE										<u> </u>	<u>.</u> L 				
METHYL BROMIDE															
METHYL CHLORIDE															
METHYLENE CHLORIDE															
1,1,2,2-TETRACHLORO-ETHANE															
TETRACHLORO-ETHYLENE		·													
TOLUENE	† · · · · ·														

Outfall number:	(Comp	lete onc	e for eac	h outfall	discharc	ina efflu	ent to w	aters of	the United S	States.)	
POLLUTANT			JM DAIL		-		DAILY				
gigen (n. 1917), est a substitution est.	Conc.	DISCI Units	HARGE	Units	Conc.	Units	Mass	Units	Number of	ANALYTICAL METHOD	ML/ MDL
State of the state		· . · · · · · · · · · · · · · · · · · ·			h				Samples	F	¥
1,1,1-TRICHLOROETHANE			,								
1,1,2-TRICHLOROETHANE									. <u>-</u>		
TRICHLORETHYLENE											:
VINYL CHLORIDE										•	
Use this space (or a separate sheet) to	provide in	formatio	n on other	volatile o	rganic cor	npounds	requeste	d by the p	ermit writer.		
ACID-EXTRACTABLE COMPOUNDS							•				
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL											
2,4-DICHLOROPHENOL											
2,4-DIMETHYLPHENOL				,			·				
4,6-DINITRO-O-CRESOL											
2.4-DINITROPHENOL											,
2-NITROPHENOL								,			,
4-NITROPHENOL											
PENTACHLOROPHENOL											
PHENOL										•	
2,4,6-TRICHLOROPHENOL											<u> </u>
Use this space (or a separate sheet) to	provide ir	formatio	n on other	acid-extr	actable co	mpounds	requeste	ed by the	permit writer.	-	
							*				<u> </u>
BASE-NEUTRAL COMPOUNDS.	<u> </u>	<u> </u>				L					
ACENAPHTHENE											
ACENAPHTHYLENE											
ANTHRACENE					-						
BENZIDINE									* 4 * * * * * * * * * * * * * * * * * *	· · ·	
BENZO(A)ANTHRACENE	<u> </u>					 	-		<u> </u>		
BENZO(A)PYRENE				-					,		

Outfall number: (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE											
POLLUTANT	N		IM DAIL` HARGE	Y .	A\	/ERAGE	DAILY	DISCH	ARGE	. w. * #2)	professional states
			Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
3,4 BENZO-FLUORANTHENE											
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE							. , .				
BIS (2-CHLOROETHOXY) METHANE										,	
BIS (2-ÇHLOROËTHYL)-ETHER								-			
BIS (2-CHLOROISO-PROPYL) ETHER							·				,
BIS (2-ĒŤHYLHĒŽYL) PHŤḤALĀŤĒ	_										
4-BROMOPHENYL PHENYL ETHER	··										
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE									5	2012 - 12	,
4-CHLORPHENYL PHENYL ETHER											, ,
CHRYSENE											
DI-N-BUTYL PHTHALATE											
DI-N-OCTYL PHTHALATE											,
DIBENZO(A,H) ANTHRACENE									==		
1,2-DICHLOROBENZENE					<u>.</u>						
1,3-DICHLOROBENZENE	·										
1,4-DICHLOROBENZENE		F-124-17								, <u></u>	
3,3-DICHLOROBENZIDINE	٠.										
DIETHYL PHTHALATE				-1							
DIMETHYL PHTHALATE											
2,4-DINITROTOLUENE										-	
2,6-DINITROTOLUENE											
1,2-DIPHENYLHYDRAZINE											

Massanutten Public Service Corporation VA 0024732

Outfall number:	_ (Comp	lete ond	e for eac	ch outfall	discharg	ging efflu	uent to w	aters of	the United	States.)	
POLLUTANT	ý		JM DAIL HARGE		A)	VERAGI	E DAILY	DISCH	ARGE	i i	3 2 2
en e	Conc.		Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE									Carripido		
FLUORENE											
HEXACHLOROBENZENE											
HEXACHLOROBUTADIENE				,							
HEXACHLOROCYCLO- PENTADIENE											
HEXACHLOROETHANE											
INDENO(1,2,3-CD)PYRENE											
ISOPHORONE											
NAPHTHALENE						•					·
NITROBENZENE										·	
N-NITROSODI-N-PROPYLAMINE											
N-NITROSODI- METHYLAMINE											
N-NITROSODI-PHENYLAMINE								:			
PHENANTHRENE	-						,				
PYRENE										-	
1,2,4-TRICHLOROBENZENE		<u></u>									
Use this space (or a separate sheet) to	provide in	ıformatio	n on othe	r base-ne	utral comp	ounds re	quested I	by the per	rmit writer.	r"	r 1.2 - 11.
Use this space (or a separate sheet) to	próvide ir	formatio	n on othe	r pollutant	s (e.a. pe	sticides)	requestes	by the r	ermit writer		
one of the contract of the con	7.0.100 11	1	T	T	1 (5.8., pc	<u> </u>	1	T	- was an analysis		
	1		<u> </u>	ENI	OF	PAR1	Г D .	or Arms y			

END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Massanutten Public Service Corporation VA 0024732

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to

_complete	the second secon	and a second feature of the second se	<u> </u>		
E.1. Required Tests.					
Indicate the number of whole effluen	t toxicity tests conducted in the past	four and one-half years.			
chronicacute			•		
E.2. Individual Test Data. Complete the column per test (where each species	following chart for each whole efflue constitutes a test). Copy this page	ent toxicity test conducted in the last fi if more than three tests are being rep	our and one-half years. Allow one orted.		
	Test number:	Test number:	Test number:		
a. Test information.					
Test species & test method number					
Age at initiation of test					
Outfall number					
Dates sample collected					
Date test started					
Duration					
b. Give toxicity test methods followed.					
Manual title					
Edition number and year of publication					
Page number(s)					
c. Give the sample collection metho	od(s) used. For multiple grab sample	es, indicate the number of grab sample	es used.		
24-Hour composite					
Grab					
d. Indicaté where the sample was to	aken in relation to disinfection. (Chec	ck all that apply for each)			
Before disinfection					
Äfter disinfection					
After dechlorination					

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER: Massanutten Public Service Corporation VA 0024732

	Test number:	Test number:	Test number:	
e. Describe the point in the treatment process at which the sample was collected.				
Sample was collected:				
f. For each test, include whether the	test was intended to assess chronic	toxicity, acute toxicity, or both.		
Chronic toxicity				
Acute toxicity				
g. Provide the type of test performed	d.			
Static				
Static-renewal			<u> </u>	
Flow-through				
h. Source of dilution water. If labora	atory water, specify type, if receiving	water, specify source.		
Laboratory water				
Receiving water				
i. Type of dilution water. It salt water	r, specify "natural" or type of artificia	l sea salts or brine used.		
Fresh water				
Salt water				
j. Give the percentage effluent used	for all concentrations in the test seri	es.		
k. Parameters measured during the	test. (State whether parameter meet	s test method specifications)		
рН				
Salinity				
Temperature				
Ammonia				
Dissolved oxygen				
I. Test Results.				
Acute:				
Percent survival in 100% effluent	%	%	%	
LC ₅₀				
95% C.I.	%	%	. %	
Control percent survival	%	%	%	
Other (describe)				

Form Approved 1/14/99 **FACILITY NAME AND PERMIT NUMBER:** OMB Number 2040-0086 Massanutten Public Service Corporation VA 0024732 Chronic: NOEC % % % % % % IC₂₅ % % % Control percent survival Other (describe) m. Quality Control/Quality Assurance. Is reference toxicant data available? Was reference toxicant test within acceptable bounds? What date was reference toxicant test run (MM/DD/YYYY)? Other (describe) E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation? _Yes___No If yes, describe: E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results. (MM/DD/YYYY) Date submitted: Summary of results: (see instructions) END OF PART E. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE.

Page 17 of 21

VPDES Sewage Sludge Permit Application for Permit Reissuance Instructions WHO MUST SUBMIT THE APPLICATION - All facilities with a current VPDES Permit that authorizes the discharge of treated sewage wastewater that are applying for reissuance must complete and submit this application. Part 1 is general information to be provided by all facilities. Part 2 must be completed by all facilities that generate Class A or Class B biosolids that are land applied. Part 3 must be completed by all facilities that land apply Class B biosolids. Part I - Sludge Disposal Management (To be completed by all facilities) Facility Name: Massanutten Public Service Corporation VPDES Permit No: VA 0024732 I. Shipment Off Site for Treatment or Blending TYes VINO Is sewage sludge from your facility sent to another facility that provides treatment or blending? If you send sewage sludge to more than one facility, attach additional sheets as necessary, Shipment off site is: The primary method of sludge disposal A back up method of sludge disposal a. Receiving Facility Name. b. Receiving Facility VPDES Permit No. c. Include an acceptance letter from the Receiving Facility. d. Receiving Facility's ultimate disposal method for sewage sludge 2. Disposal in a Municipal Solid Waste Landfill Yes No Is sewage sludge from your facility placed in a municipal solid waste landfill? If sewage studge is placed on more than one municipal solid waste landfill, attach additional pages as necessary. a. Landfill Name b. Landfill Permit No. c. Include an acceptance letter from the landfill. Incineration Is sewage sludge from your facility fired in a sewage sludge incinerator? ☐ Yes VNo Incincration is: The primary method of sludge disposal A back up method of sludge disposal a. Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? ☐Yes ☐No If yes, provide the Air Registration No. If no, complete items b - d for each incinerator that you do not own or operate. b. Facility Name c. Air Registration No. d. Include an acceptance letter from the Incinerator. 4. Class A Biosolids Yes No Do you produce Class A biosolids for land application or distribution and marketing? If yes, complete Part 2. ☐ Yes ☐ No Are Class A biosolids from your facility land applied in bulk? ☐ Yes ☐ No Do you sell or give away Class A biosolids in a bug or other container for application to the land? If yes, provide the VDACS certification number? 5. Class B Biosolids V Yes No Do you produce Class B biosolids? If yes, complete Part 2. Are Class B biosolids from your facility land applied land applied under the authorization of this VPDES Permit? If yes, Yes V No complete Part 3, 6. Land Application Under a Separate Permit Are biosolids from your facility land applied under the authorization of a permit other than your VPDES Permit? Yes No Biosolids are land applied under the authorization of a 🗸 VPA permit 🔲 Another VPDES Permit 📋 Out of State Complete items a - e for each VPA permit authorized to land apply biosolids from your facility. a. Permittee Name b. Permit No. VPA01566, VPA01580, Houff's Feed & Fertilizer Co., Inc. VPA01581 Include copy of any information you provide to the Receiving VPDES or VPA Permittee to comply with the "notice and necessary information" requirement of 9VAC25-31-530 F.

	VPDES Sewage Sludge Permit Application for Permit Reissuance		
P	art 2 - Biosolids Characterization (To be completed by all facilities that generate biosolids that are land appli	icd.)	100
	Have there been changes to sludge treatment processes or storage facilities since the previous permit issuance/reissuance?	☐ Yes	☑ No
2.	Do the biosolids generated under this permit that will be land applied meet one of the Class A pathogen requirements in 9VAC25-31-710 A 3 through A 8 or Class B pathogen requirements in 9VAC25-31-710 B 1 through B 47	✓ Yes	□No
	Identify the pathogen reduction option utilized to demonstrate compliance with the pathogen reductions requirements and proving that demonstrate compliance with the applicable alternative. Fecal Coliform Monitoring	ide the da	ta
3.	Do the biosolids generated under this permit that will be land applied meet one of the vector attraction reduction requirements in 9VAC25-31-720 B 1 (brough B 10?	☑ Yes	□ No
	Identify the vector attraction reduction option utilized to demonstrate compliance with the vector attraction reductions requirem provide the data that demonstrate compliance with the applicable alternative. SOUR Testing	nents and	
4.	Do the biosolids to be land applied meet the ceiling/pullutant concentrations in 9VAC25-31-540 B?	☑ Yes	Пло
	Has data from the most recent 3 samples for pH (S.U.), Percent Solids (%), Ammonium Nitrogen (mg/kg), Nitrate Nitrogen (mg/kg), Total Kjeldahl Nitrogen (mg/kg), Total Phosphorus (mg/kg), Total Potassium (mg/kg), Alkalinity as CaCO ₃ (mg/kg), Arsenic (mg/kg), Cadmium (mg/kg), Copper (mg/kg), Lead (mg/kg), Mercury (mg/kg), Nickel (mg/kg), Selenium (mg/kg), Zinc (mg/kg) been submitted to DEQ? The samples shall be no more than 4% years old and each sampling date shall be at least 1 month apart.	Yes	□ No
	If no, provide the data with this application.		
P	art 3 - Land Application of Class B Biosolids (To be completed by all facilities that land apply Class B biosoli	ids.)	
T.	Provide to DEQ and to each locality in which biosolids are to be land applied, written evidence of financial responsibility. Eviresponsibility shall be provided in accordance with 9VAC25-31-100 P 9.	dence of t	financial
2.	For each site, provide a properly completed landowner agreement for each landowner, using the most current Land Application Biosolids Form (VPDES Sewage Sludge Permit Application Form – Attachment to Section C).	Agreeme	ent –
3.	Are any new land application fields proposed at this reissuance?	Yes	□ No
	If yes, contact the DEQ Regional Office for additional submittal requirements,		
4.	For the currently permitted land application fields, are the previously submitted site booklets, maps and acreage accurate.	Yes	□ No
	If no, contact the DEQ Regional Office for additional submittal requirements.		
5.	Does the facility's Biosolids Management Plan on file with DEQ include the following minimum information?	☐ Yes	□No
	a. An odor control plan that addresses the abatement of odors resulting from the storage and/or land application of biosolic	ds.	
	b. A description of the transport vehicles to be used.		
	 e. Procedures for biosolids offloading at the land application site including spill prevention, cleanup (including vehicle elementary) reclamation, and emergency notification and cleanup measures. 	aning), fi	eld
	 A description of the land application equipment including procedures for colibrating equipment to ensure uniform distri- appropriate loading rates. 		
	 Procedures used to ensure that land application activities address notification requirements, signage requirements, slope operation limitations during periods of inclement weather, soil pH requirements, buffer zone requirements, and site rest 		ns,
	 Any other information necessary to ensure compliance with the requirements of the Biosolids Program of the VPDES P (9VAC25-31-420 through 720). 	ermit Reg	gulation
C	ertification		
de w	certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance esigned to assure that qualified personnel properly guther and evaluate the information submitted. Based on my inquiry of the person to manage the system or those persons directly responsible for gallering the information, the information is, to the best of my knowing the accurate, and complete. I am aware that there are significant penalties for submitting false information, including the particular three personnents for knowing violations.	rson or po nowledge	ersons and
	Name and Official Title Daw Smiley DOEA MANAGER		
	Signature Some Some Some		
	Telephone number/Email (540) 289 7088 / Deskilley & U. Water &	c	
	Date signed 4-21-2015		
(H	tased on a review of this information, it may be necessary to submit additional information to meet other legal or technical review requirements.)	1	

NOTICE AND NECESSARY INFORMATION

Biosolids notification requirements to comply with 9VAC25-31-530.F - G or 9VAC25-32-313.G - H.

Part I - To be completed by PREPARERS of biosolids and provided to the person who applies or receives those biosolids

Facility Name: Massanutten Public Service Corp	oration Permit Number: VA0024732
A. Metals Limitations Sample Date(s): 2-11-2015	Number of Samples: 1

	Concen	trations	PC/CPLR Limitations	Ceiling Limitations (2)
Parameters	Monthly Average (mg/kg) (1)	Maximum (mg/kg) (1)	Monthly Average (mg/kg) (1)	Maximum (mg/kg) ⁽¹⁾
Total Arsenic	4.0	4.0	41	75
Total Cadmium	<2.0	<2.0	39	85
Total Copper	506	506	1,500	4,300
Total Lead	9	9	300	840
Total Mercury	.8	.8	17	.57
Total Molybdenum	<5	<5	NL (3)	75
Total Nickel	18	18	420	420
Total Selenium	6	6	100	100
Total Zinc	724	724	2,800	7,500

⁽¹⁾ Values to be reported on a dry weight basis.

B. Class B Pathogen Reduction

☐ Other:

Class B biosolids pathogen reduction requirements were achieved in accordance with 9VAC25-31-710.B or 9VAC25-32-675.B by:

Alternative 1: Fecal coliform testing -geometric mean of 7 samples

42 i mortigi de 1: 1 com contestin com 2 Beament and anti-	
Alternative 2: Process to Significantly Reduce Pathogens (PSRP) - if selected, indicate process be	low:
✓ IZI-Option 1 - Aerobic dige stion	
☐ Option 2 - Air drying beds	
☐ Option 3 - Anaerobic digestion	
☐ Option 4 - Composting	
☐ Option 5 - Lime Stabilization	

⁽²⁾ Sludge may not be land applied if any pollutant exceeds these values.(3) The monthly average concentration for molybdenum is currently under study by USEPA. Research suggests that a monthly average molybdenum concentration below 40 mg/kg may be appropriate to reduce the risk of copper deficiency in grazing animals.

NOTICE AND NECESSARY INFORMATION

Ξ.	Vector Attraction Reduction (VAR)					
	VAR requirements for Class B biosolids were achieved in accordance with 9VAC25-31-720.B.1 – 8 or 9VAC25-32-685.B.1 – 8 by:					
	☐ Option 1: ≥ 38% volatile solids ☐ Option 2: Anaerobic 40 day ben ☐ Option 3: Aerobic 30 day bencl ☐ Option 4: Specific Oxygen Upt ☐ Option 5: Aerobic process, 14 c ☐ Option 6: Alkaline stabilization ☐ Option 7: Dry to ≥ 75% T.S. w ☐ Option 8: Dry to ≥ 90% T.S.	nch test n test ake Rate (SOUR days @ 40°C (45	5°C)	· .		
	OR					
	□ VAR requirements for Class B bid or 9VAC25-32-685.B.1 – 8; there land application site.	osolids were not fore, Option 9 (I	achieved in accord njection) or Option	ance with 93 10 (Incorpo	VAC25-31-720.B.1 ration) is required	-8 at th
D.	Nutrient Concentrations					
	Sample Date(s): 2-11-2015		Number of S	Samples: 1		
		1		4.4		
) ((1 A	T T T T T T T T T T T T T T T T T T T	trations	: ((1 (1))	_
	Parameters		verage (mg/kg) (1)		imum (mg/kg) (1)	_
	Total Nitrogen as N	4960 TKA		4960	76,500	
	Total Phosphorus as P	1,59	15,900	1,59	15,900	
3.	*Values to be reported on a dry weight ba Certification I certify under penalty of law that this supervision in accordance with a systematical experiments.	document and a	all attachments were	personnel p	properly gather and	d
	evaluate the information submitted. B those persons directly responsible for knowledge and belief, true, accurate a submitting false information, including	gathering the in and complete. I	iiry of the person or formation, the infor am aware that there	mation is, to are signific	o the best of my cant penalties for	
۷aı	evaluate the information submitted. B those persons directly responsible for knowledge and belief, true, accurate a submitting false information, including	gathering the in and complete. It g the possibility	iiry of the person or formation, the infor am aware that there	mation is, to are signific nment for kn	o the best of my cant penalties for	_
Na:	evaluate the information submitted. B those persons directly responsible for knowledge and belief, true, accurate a	gathering the in and complete. It g the possibility	iry of the person or formation, the information, the information that there of fine and imprisor	mation is, to are signific nment for kn	o the best of my cant penalties for nowing violations.	-

Odor Control Plan - Generator

Facility Name: MPSC Address: 1550 Resort Drive City State: MCGaheysville, VA	VPDES/NPDES Permit Number: VAOO24732
Contact Name:	ith biosolids or sowngo skydgo og
distinguished from odors commonly associated with biosolids or sew	
Answer all 4 questions and check all methods that apply OR add alt	ernative methods.
1) Identify methods used to minimize odor during production of bi	osolids:
Vector Attraction Reduction Method:	
38% VSS solids reduction – Treatment minimizes odors throug Class B biosolids. Digestion detention times and digester tempereduction are monitored to ensure that State and Federal state	peratures along with volatile solids
☐ Lime Addition: Treatment includes adding sufficient lime to the after two hours and then testing again after an additional 22 Lime feed rates and biosolids pH data will be recorded and ch	nours for a pH greater than 11.5.
Additional procedures (if applicable):	
 15 day minimum detention time and a minimum of 95 degree maintained 	es F in anaerobic digestion will be
SOUR testing of biosolids	
☐ Fecal coliform testing of biosolids	i

2)	Identify methods used to identify malodorous biosolids at the generating facility:
	☐ Wastewater treatment facility staff will periodically perform visual as well as odor observations of the biosolids being discharged from the centrifuge or pug mill to ensure that nothing out of the ordinary is occurring during processing operations. If the solids appear to be off color or have unusual odors, these biosolids will be separated from the normal biosolids or sent to landfill.
	□ Volatile solids testing and tracking
	Wastewater treatment facility staff will periodically observe loading operations to check odor conditions of biosolids
3)	Identify methods used to identify and abate malodor after delivery to a land application site (before land application):
	☐ The land application contractor's personnel will perform a visual as well as odor observation biosolids delivered to the land application sites. They will determine if any of the individual loads arriving on-site appear to be more odorous and darker in color than usual. If malodor of the biosolids is present, the contractor will confer with wastewater treatment plant staff and can remove the biosolids and return those loads to the wastewater treatment plant for further treatment or transport to a landfill
	☐ Confer with land applicator and utilize a remote land application site
	☐ Check pH levels on suspect lime stabilized biosolids
	Contract land applicator will use methods identified in land applicator's odor control plan
4)	Identify methods used to abate malodor after land application:
	☐ Incorporate biosolids into the soil
	☐ Use a deodorizer
	☑ Contract land applicator will use methods identified in land applicator's odor control plan

PUBLIC NOTICE BILLING INFORMATION

in accordance with 9 VAC 25-31-

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week

and devices to the second of
Massanutten Public Service/Utilities INC
Don Smiley
2335 Sanders Rd
Northbrook IL 60062
847 498 6440
Doct Souther

- 20-20-5

Facility Name: Massanutten Public Service Corp

Authorizing Agent - Signature:

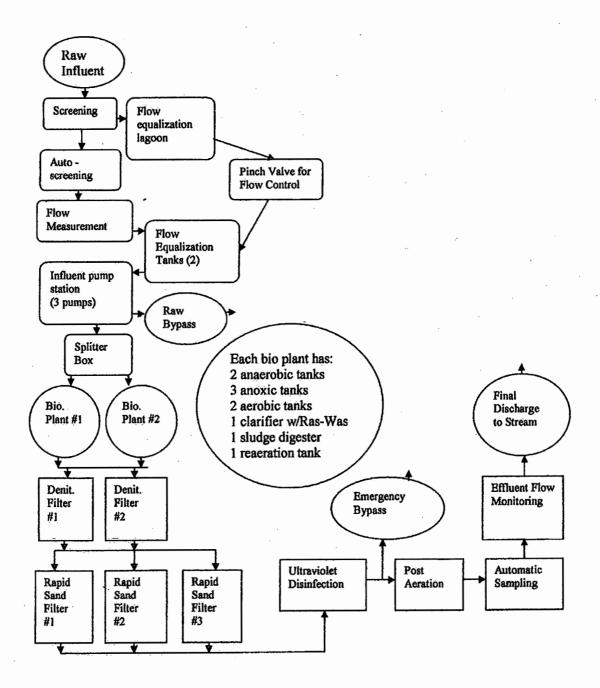
Date:

for two consecutive weeks in Daily News Record

VPDES Permit No. VA 0024732

VPDES/VPA Permit Billing Information Form for Annual Maintenance Fee

Facility Name:	Massanutten Public Service Corp	
Permit Number:	VA 0024732	
Owner Name:	Don Smiley	•
Owner Address:	1550 Resort Dr	
	Mcgaheysville VA	
	22840	
Billing Contact Name:	Don Smiley	
Title:	Area Manager	
Phone Number:	540 289 7088	
E-Mail Address:	desmiley@uiwater.com	



12/09/2011

PROM

<u>, r</u>

COMMONWEALTH OF VIRGINIA - DEPARTMENT OF ENVIRONMENTAL QUALITY

GENERAL PERMIT FOR TOTAL NITROGEN AND TOTAL PHOSPHORUS DISCHARGES AND NUTRIENT TRADING IN THE CHESAPEAKE BAY WATERSHED IN VIRGINIA
DISCHARGE MONFTORING REPORT (DMR)

NAME Mesmantica Public Service 8 TP ADDRESS PO But 51

FACILITY LOCATION 1550 Report Dr.

Elloton

VA.

22827

VAN010039 PERMIT NUMBER

500 **OUTFALL NUMBER**

MONITORING PERIOD YEAR MO DAY YEAR: MO DAY 0/ 71:

Department of Havironmental Quality
Valley Regional Office
4411 Early Read P.O. Box 2000 Harrisonburg VA 22801

MATE BEARING AND AND CONTROL OF THE PERSON O

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO.	PREQUENCY	BAMPLE:
	1	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIXUM	TIVILIS.	EX.	OF ANALYSIS	TYPB
192 NITROGEN, TOTAL (AS N) (CALENDAR YRAR)	REFORTED	*******	25338	LBYN	*****	******	******		0	1/4	CALC
	REPORTED AND AND AND AND AND AND AND AND AND AN	4444444	18;273		*******	*****	*******		•	I/YR	CALC
794 PHOSPHORUS, TOTAL (AS P) (CALENDAR YEAR)	REPORTED	********	5820	LH/YR	*******	*****	******		0	1/1	colo
	PERSON ROWSERS	*******	1,371		Enternation .	*******	*******			1/YR	CALC

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS:

888ATY6 CAA	TOTAL OCCURRENCES	TOTAL PLOW (M.G.)	TOTAL BOOM (K.G.)	OFBRATOR IN BEST CONSIBLE CHARGE				LATE		
OVERFLOWE	0	ڻ ن		KETTH F. SAMSON	hordan	1965 005517	15	01	09	
I CERTIFF UNCEL PRIMARY OF LAW THAT THIS DOCUMENT AND ALC. ATTACHMENTS HERE PARPARED THIS HT DIRECTION OF REPORTS IN ACCOUNTING HITE & PARTAL DESCRIBE TO			TYPED OR PRINTED NAME	BIGNATURB	святисьтв но.	YEAR "	360.	DAY		
AGENTIS THAY CUMLIFIED PRESONAL PROPERTY CAPTURE AND STALLTS THE INFORMATION OF THE STREET, IN THE STREET OF THE PROPERTY OF BEST OF THE PROPERTY OF THE PROPE		PRINCIPAL EXECUTIVE	TELEMIONE							
THOSE PRACES DIRECTLY RESCRIPTED FOR DETERMINE THE PROCESSION, THE INFORMATION AND RESIDENCE AND CONTRACT. I AND AMARE THAT THERE ARE STORPFORM PROCESSION FOR THE THE THE PROCESSION AMARE THAT THERE ARE STORPFORM PROCESSION FOR THE THERE ARE STORPFORM.			Keith F. SAMBUR	has sign	540-289-9912	DATE				
	SECOLUTY OF PINE AND S			TYPED OR PRINTED NAME	BIGNASORE		YEAR	M0.	DAY	

FACILITY NAME: Massanutten Public Service Corporation STP

ADDRESS:

P.O. Box 51 Elkton, VA 22827 Permit No. VA0024732 Attachment A Page 1 of 1

CASRN®	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ¹⁰	REPORTING RESULTS	SAMPLE TYPE ⁽⁷⁾	SAMPLE FREQUENCY
		PESTICIT	DES/PCBS			
333-41-5	Diazuton	(3)	(4)	.27	Gorc	US YR
		ACID EXTRA	ACTABLES (5)		
104-40-51	Nonylphenol	(3)	(4)	UN	Garc	1/5 YR

Name of Principal Exec. Officer or Authorized Agent/Title

Signature of Principal Officer or Authorited Agent/Date

I certify under pensity of law that this document at d all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gather og 100 information, the information submitted is to the best of my knowledge and belief, trice, occurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these stantes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Footnotes to Water Quality Monitoring Attachment A

 Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value that may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change based on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C - Composite = An 8-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at Fourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over: 24-hour period.

- Any approved method presented in 40 CFR Part 136.
- (4) The QL is nt the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.
- (5) Testing for phenols requires continuous extraction.

FACILITY NAME: Massanutten Public Service Corporation STP

ADDRESS:

P.O. Box 51 Elkton, VA 22857

Permit No. VA0024732 Attachment B Page 1 of 4

DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY MONITORING

CASRN#	CHEMICAL	EPA ANALYSIS NO	QUANTIFICATION LEVEL®	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENC
		ME	TALS			
7440-36-0	Antimony, dissolved	(3)	660	ND	G us C	ID YR
7440-38-2	Arsenic, dissolved	(3)	93	ND	GorC	1/5 YR
7440-43-9	Cadmium, dissolved	(3)	13	ND	GorC	1/5 YR
16065-83-1	Chromium III, dissolved (6)	(3)	87	ND	Gorc	1/5 YR
18540-29-9	Chromium VI, dissolved [∞]	(3)	6.6	ND	G or C	U5 YR
7440-50-8	Copper, dissolved	(3)	-11	.0124	GorC	1/5 YR
7439-92-1	Lead, dissolved	(3)	23	ON	GorC	1/5 YR
7439-97-6	Murcury, dissolved	(3)	1.0	ND	GorC	1/5 YR
7440-02-0	Nickel, dissolved	(3)	24	ND	Gert	1/5 YR
7782-49-7	Scionium, total recoverable	(3)	3.1	ND	GorC	1/5 YR
7440-22-4	Silver, dissolved	(3)	5.4	ND	G or C	1/5 YR
7440-28-0	Thallium, dissolved	(4)	(5)	ND	GorC	1/5 YR
7440-66-6	Zinc, dissolved	(3)	93	.0434	GorC	1/5 YR
		PESTICI	DES/PCBS			
309-00-2	Aldrin	608	0.05	ND	GorC	1/5 YR
57-74-9	Chlordane	608	0.2	ND	GorC	1/5 YR
2921-88 2	Chilorpyrifes	627	(5)	ND	Gorc	1/5 YR
72-54-8	DDD	608	0.1	ND	GerC	1/5 YR
72-55-9	DOE	608	1,0	ND	Gort	1/5 YR
50-29-3	DDT	608	0.1	ND	GorC	1/5 YB
8065-48-3	Demeton	(4)-	(5)	ND	G or C	1/5 YR
333-41-5	Diazinon	(4)	(5)	.27	G or C	1/5 YR
60-57-1	Dieldrin	608	0,1	ND	GorC	175.YR
959-98-8	Alpha-Endosolfan	80X	0.1	ND	G or C	1/5 YR
33213-65-9	Bota-Endossalfan	608	0.1	ND	GorC	1/5 YR
1037-07-8	Endosulfan Sullate	608	1.0	ND	GorC	1/5 YR
72-20-8	Endem	608	0.1	ND	Gorc	175 YR
7471-93-4	Endrin Aldehyde	(4)	(5)	NJ	GorC	1/5. YR
86-50-0	Guthion	622	(5)	ND	GorC	1/5 YR
76-44-8	Heptachlor	608	0.03	ND	GorC	LIS YR
1024-57-3	Heptachlor Epoxide	(4)	(5)	ND	GorC .	1/5 YR
319-84-6	Hexachlorocyclohexane Alph i-BHC	608	(5)	ND	G or C	1/5 YR
319-85-7	Hexachlorocyclohexane Beta-BHT	608	(5)	DN	GotC	175 YR

FACILITY NAME: Massanutten Public Service Corporation STP ADDRESS: P.O. Box 51

Elkton, VA 22857

Permit No. VA0024732 Attachment B Page 2 of 4

DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY MONITORING

CASRNII	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ^{PQ}	REPORTING RESULTS	SAMPLE TYPE [®]	NAMPLE FREQUENC
58-89-9	Hexachlorocyclohexane Garr ma-BHC (synonym = Lindane)	608	(5)	ND	G or C	1/5 YR
143-50-0	Kepone	(9)	(5)	ND	G or C	175 YR
121-75-5	Malarhson	(4)	(5)	ND	Gorc	1/5 YR
72-43-5	Methoxychlor	(4)	(5)	ND	GorC	1/5 YR
2385-85-5	Mirex.	(4)	(5)	ND	G er C	1/5 YR
16-38-2	Farathion	(4)	(5)	ND	GorC	1/5 YK
1336-36-3	PCB Total	608	7.0	ND	GorC	1/5 YR
8001-75-2	Toxaphene	608	5.0	ND	GorC	W5.YR
	BASE	NEUTRAL	EXTRACTA	BLES		
83-12-9	Acenaphthene	625	10.0	ND	GorC	1/5 YR
120-12-7	Anthracene	625	10:0	ND	GorC	1/5 YR
92-87-5	Benzidine	(4)	(5)	MD	GorC	1/5 YK
36-59-3	Benzo (a) anthracene	675	10.0	ND	GorC	1/5.YR
2015-99-2	Benzo (b) fluoranthene	625	10.0	ND	GorC	1/5 YR
207-08-9	Bunzo (k) fluoranthene	625	10.0	MD	G or C	1/5 YR
50-32-8	Benzo (a) pyrene	625	10.0	ND	GorC	1/5 YR
111-44-4	Bis 2-Chlorosthyl Ether	(4)	(5)	ND	GorC	1/5 YR
108-60-1	Bis 2-Chloroisopropyl Ethici	(4)	(5)	ND	GorC	1/5 YR
117-81-7	Bis-2-Ethylbexyl Phrhalme	623	100	ND	GorC	1/5 YR
85.68-7	Buryl benzyl phthalate	625	10.0	ND	GorC	L/5 YR
91-58-7	2-Chloromphthalene	(4)	(5)	ND	GorC	1/5 YR
218-01-9	Chrystene	625	10.0	ND	GorC	1/5 YR
53-70-3	Dibenz(a,h)anthracene	625	20.0	N)	GorC	1/5 YR
95-50-1	1,2-Dichlorobenzene	624	10 (1	ND	GorC	I/1 YR
541-73-1	1,3-Dichlorobenzene	6)4	-10.6	ND	G or C	L/S YR
106-46-7	1,4-Dichlorobenzene	624	10.0	ND	GorC	1/5 YR
91-94-1	3,3-Dichlorobenzidine	(4)	(5)	ND	GorC	LO YR
84-66-2	Digithy/ phthalate	625	10.0	ND	GorC	1/5 YR
131-11-3	Dimethyl phthalate	. (4)	(5)	ND	GorC	1/5 YR
84-74-2	Di-n-Buryl Phihalate	625	10.0	ND	GorC	1/5 YR
121-14-2	2,4-Dinitrotoluene	625	10.0	ND	G or C	1/5 YR
122-66-7	1,2-Diphenyllrydrazine	(4)	(5)	ND	G or C	1/5 YR
206-44-0	Fluornothene	625	10.6	ND	GerC	1/5 YR

FACILITY NAME: Massanutten Public Service Corporation STP ADDRESS: P.O. Box 51 Elkton, VA 22857

Permit No. VA0024732 Attachment B .age 3 of 4

DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY MONITORING

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ³¹	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENC
86-73-7	Fluorene	635	10.0	ND	GorC	1/5 YR
138-74-1	Hexachlorobenzene	(4)	(5)	ND	GorC	1/5 YR
87-68-3	Hexachlorohutadiene	(4)	(3)	ND	G or C	1/5 YR
77-47-4	Herschlorocyclopentadiene	(4)	(5)	ND	GorC	1/5 YR
67,72-1	Hexachloroethane	(4)	(5)	NA	Gort	LO YR
193-39-5	Indeno(1,2,3-cd)pyrene	675	20.0	NI)	Gorc	1/5 YR
78-59-1	Isophorone	625	0,01	ND	GorC	1/5 YR
98-95-3	Nitrobenzene	625	10.0	ND	GorC	L/S YR
62.75.9	N-Nitrosodimethylamine	(4)	(5)	ND	GorC	1/5 YR
621-64-7	N-Nitrosodi-n-propylamine	(4)	(5)	ND	GorC	10 YR
86-10-6	N-Nitrosodiphenylamine	(4)	(5)	ND	GorC	1/5 YR
129.00-0	Pyrene	623	10.0	NI)	GorC	1/5 YR
120-82-1	1,2,4-Trichlorobenzene	625	10.0	(N)	GorC	1/5 YR
		VOLA	TILES			
107-02-8	Acrolcin	(4)	(5)	MD	G	D5 YR
107-13-1	Acrylonitrile	(4)	(3)	ND	G	18 YR
71.43.2	Henzene	. 624	10.0	ND	G	1/5 YR
75-25-2	Bromoform	624	0.01	ND	G	1/5 YR
56-23-5	Carbon Tetrachloride	674	10,0	ND	G	T/S YR
108-90-7	Chlorobenzene	624	50.0	ND	G	US VR
174-48-1	Chlorodibromomethane	624	10.0	NI)	G	1/5 YR
67-66-3	Chloroform	624	10.0	ND	G	1/5 YR
75-27-4	Dichlorobromomethane	624	10.0	ND	(i	1/5 YR
107 06 2	1,2-Dichloroethane	624	10.0	ND	G	3/5 YR
75-35-4	1.1-Dichloroethylene	624	10.0	ND	G	1/5 YR
156-60-5	1,2-trans-dichlornethylene	(4)	(5)	ND	G	1/5 YR
78-87-5	1.2-Dichloropropane	(4)	(5)	ND	G	1/5 YR
542-75-6	1,3-Dichloropropene	. (4)	(5)	ND	G	1/5 YR
100-41-4	Prhythenzene.	624	10.0	ND	G	1/5 YR
74-83-9	Methyl Bromide	(4)	(5)	ND	G	1/5 YR
75-09-2	Muthylene Chloride	674	20.0	ND	G	L/S YR
79 34 5	1,1,2,2-Terrachloroethane	(4)	(5)	ND	G	1/5 YB
127-18-4	Tetrachloroethylene	624	10.0	ND	G	1/5 YR
10-88-3	Toluene	624	100	QN CN	G	1/5 YK

FACILITY NAME: Massanutten Public Survice Corporation STP

ADDRESS:

P.O. Box 51 Elkton, VA 22857 Permit No. VA0024732 Attachment B Page 4 of 4

DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY MONITORING

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE®	SAMPLE FREQUENCY
79-00-5	1,1,2-Trichloroethane	(9)	(5)	ND	G	3/5 YR
79-01-6	Trichloroethylene	624	10.0	ND	G	1/5 YR
75-01-4	Vinyl Chloride	624	10.0	ND	, G	1/5 YR
		ACID EXTRA	CTABLES (6)		
95-57-8	2-Chlorophenol	675	10.0	ND	G or C	1/5 YR -
120-83-2	2,4 Dichlorophenol	625	10.0	ND	tior C	1/5 YK
105-67-9	2,41) meshylphenol	625	10.0	ND	GorC	1/5 YR
51-28-5	1,4-Dinitrophenol	(4)	(5)	ND	GorC	175 YR
534-52-1	2-Methyl-4,6-Dinitrophenol	(4)	(5)	ND	G or C	1/5 YR
104-40-51	Nonylphenol	(4)	(5)	ND	GorC	1/5,YR
87-86-5	Pentachlorophenol	625	50.0	ND	Citie C	1/5 YR
108-95-2	Phonal	625	10.0	ND	G or C	1/5 YR
88-06-2	2,4,6-Trichlorophenol	625	10.0	ND	G or C	1/5 YR
		MISCELL	ANEOUS			
16887-00-6	Chloride	(4)	(5)	.70	C	1/3 YR
57-12-5	Cyanide, Free	(4)	80.0	ND	G	1/5 YR
7783-06-4	Hydrogen Sulfide	.(4)	(5)	ND	GorC	1/5 YR
60-10-5	Tributyltin 10	NBSR 85-3295	(5)	2.03	GorC	1/5 YR
471-34-1	Hardness (mg/l. as CaCO ₁)	(4)	(5)	204	С	1/5.YR

Don Smilty AREA Managen
Name of Principal Exec. Officer or Authorized Agent/Title

Signature of Principal Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in a coordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete I am aware that there are significant penalties I is a directing false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (P and as under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years)

FACILITY NAME: Massamutten Public Service Corporation STP

ADDRESS:

P.O. Box 51 Elkton, VA 22857 Permit No. VA0024732 Attachment B Footnotes

Footnotes to Water Quality Monitoring Attachment B

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

The quantification levels indicated for the metals are actually Specific Target Values developed for this permit. The Specific Target Value is the approximate value hat may initiate a wasteload allocation analysis. Target values are not wasteload allocations or effluent limitations. The Specific Target Values are subject to change hased on additional information such as hardness data, receiving stream flow, and design flows.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

(2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metal samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

(3) A specific analytical method is not specified; however a target value for each metal has been established. An appropriate method to meet the target value shall be selected from the following list of EPA methods (or any approved me hod presented in 40 CFR Part 136). If the test result is less than the method QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL]</p>

Metal	Analytical Method
Antimony	1638; 1639
Arsenic	1632
Chromium ⁽⁹⁾	1639
Cadmium	1637; 1638; 1639; 1640
Chromium VI	1639
Copper	1638; 1640
1.cad	1637; 1638; 1640
Mercury	1631
Nickel	1638; 1639; 1640
Selenium	1638; 1639
Silver	1638
Zinc	1638: 1639

- (4) Any approved method presented in 10 CFR Part 136.
- (5) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.
- (6) Testing for phenols requires continuous extraction.
- (7) Analytical Methods: NBSR 85-, 295 or DEQ's approved analysis for Tributyltin may also be used [See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996].
- (8) Both Chromium III and Chromium VI may be measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the lesser of the Chromium III or Chromium VI method QL, the results for both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].</p>
- (9) The lab may use SW846 Metho 18270D provided the lab has an Initial Demonstration of Capability, has passed a PT for Kepone, and meets the acceptance criteria for Kepone as given in Method 8270D.



improving the pervironment, one client at a time...

101 17th Street Astibuid, KY 41101 TEL: 606.393.xt27

Verona, VA 24482 TF1: 540,348,0183

1557 Commerce Rand: Suite 201

16 Commerce Drive Wesniver, WV 26501

RI-I Committeets, Inc. PO Box 2Mi Boaver, WY 25813 TFJ : (304) 255-2500 Website: www.relelahs.com

TEL: 304.241.5861

TEL 540,777,1276

3029-C Pyters Creek Read

Rometic VA 24019

Tuesday, December 09, 2014.

Mr. Keith Sampson UTILITIES, INC-Massanutten PSA P.O. Box 51 Ekton, VA 22827

TEL:

(540) 289-9922

FAX:

(540) 289-3239

RE: MASSANUTTEN/ATTACHMENT A

Work Order # 1411N39

Dear Mr. Keith Sampson:

REI Consultants, Inc. received 3 sample(s) on 11/19/2014 for the analyses presented in the following report. Please find enclosed amended results. If you have any questions regarding these results, please do not hesitate to call.

Sincerety:

Beth Johnson

Project Manager



REI Consultants, Inc. - Case Narrative

WO#: 1411N39

Date Reported: 12/9/2014

Client UTILITIES, INC-Massanutten PSA Project: MASSANUTTEN/ATTACHMENT A

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wat weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REIC.

DEFINITIONS:

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable metrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Litor (weight/volume).

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit, The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual. Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

X: Reported value exceeds required MCL

B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL

E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.

H: Holding time for preparation or analysis has been exceeded.

J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.

S: % REC (% recovery) exceeds control limits.

CERTIFICATIONS:

Besver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWO 466, PADEP 68-00839, VADCLS (VELAP) 460148

Blosssay (Besver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839 Roanoke, VA: VADCLS(VELAP) 480150 Verona, VA: VADCLS(VELAP) 460151

Ashland, KY: KYDEP 00094, WV 389 Morgantown, WV: WVDHHR 003112M, WVDEP 387

WO#: 1411N39

Date Reported: 12/9/2014

Client

UTILITIES, INC-Massanutten PSA

Project: Lab ID:

MASSANUTTEN/ATTACHMENT A

DAILY FINAL EFFLUENT COMP

1411N39-01A

Client Sample ID:

Collection Date:

11/19/2014 8:30:00 AM

Date Received:

11/19/2014

Matrix:

Liquid

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual Uni	ts Date Analyzed N	IELAP
HARDNESS			Method:	SM2340	B-1997	Analyst: JD	
Hardness, Total (As CaCO3)	204	NA	1.00	NA.	mg	/L 12/5/2014 2:59 PM	VA
ANIONS by ION CHROMATOGR	APHY		Method: (1993)	EPA 30	0.0, Rev.2.1	Analyst: CF	
Chloride	70.0	NA.	2.00	NA.	. mg	L 11/20/2014 10:46 PM	PAVA

WO#: 1411N39

Date Reported: 12/9/2014

Client:

UTILITIES, INC-Massanutten PSA

Project: Lab ID:

MASSANUTTEN/ATTACHMENT A

1411N39-02A

Client Sample ID:

DAILY FINAL EFFLUENT GRAB

Collection Date: 11/19/2014 8:30:00 AM

Date Received:

11/19/2014

Matrix:

Liquid

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed N	IELAP
METALS BY ICP-MS			Method: I (1994)	EPA 200	0.8 Rev	. 5.4	Analyst: LF	
Selenium	ND	NA.	0.0050	NA		mg/L	12/2/2014 1:23 PM	PA/VA
Diazinon Only			Method:	SW8141	Α		Analyst: Sub	
Diazinon	See Altached	NA	NA	NA		mg/L	11/26/2014 7:27 PM	
TRIBUTYLTIN			Method: I	NBSIR-	35-3295	i	Analyst: Sub	
Tributy(6)	See Attached	NA	0.25	NA	Н	mg/L	11/28/2014 7:25 PM	
PESTICIDES/PCBS			Method: I	EPA 608	3		Analyst: NC	
Aroclor 1016	ND	NA	0.000503	NA.		mg/L	11/26/2014 1:03 PM	PAVA
Arodor 1221	ND	NA	0.000503	NA.		mg/L	11/26/2014 1:03 PM	PAVA
Arnclor 1232	ND	NΛ	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Aroclor 1242	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Aroclor 1248	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Arodor 1254	ND	NA.	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Aroclor 1260	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Aldrin	ND	NA	0.000503	NA.		mg/L	11/25/2014 1:03 PM	PA/VA
alpha-BHC	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
beta-BHC	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
delta-BHC	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
gamma-BHC	ND	NA.	0.000503	NA.		mg/L	11/26/2014 1:03 PM	PA/VA
Chlordane	ND	NA	0.00503	NA		mg/L	11/26/2014 1:03 PM	PAVA
4,4°-DDD	ND	NA.	0.000503	NA.		mg/L	11/26/2014 1:03 PM	PAVA
4,4"-DDE	ND	NA.	0.000503	NA		mg/l	11/26/2014 1:03 PM	PAVA
4,4'-DOT	ND	NA.	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Dieldrin	ND	NA.	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Endosulfan I	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Endosulfan II	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PANA
Endosulfan aulfate	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Endrin	ND.	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Endrin aldehyde	ND	NA	0.000503	NA		mg/L	11/26/2014 1:03 PM	PAVA
Heptachlor	ND	NA	0.000503	NA.		mg/L	11/26/2014 1:03 PM	PANA
Heptachlor epoxide	ND	NA	0,000503	NA		ang/L	11/26/2014 1:03 PM	PAVA
Toxaphene	ND	NA.	0.00503	NA		mg/L	11/26/2014 1:03 PM	PANA

WO#: 1411N39

Date Reported: 12/9/2014

Client:

UTILITIES, INC-Massanutten PSA

Project: Lab ID:

MASSANUTTEN/ATTACHMENT A

Client Sample ID:

1411N39-02A

Collection Date: 11/19/2014 8:30:00 AM

Date Received:

11/19/2014

Matrix:

Liquid

DAILY FINAL EFFLUENT GRAB

Site ID:

ELKTON, VA

Analysis	R	esult	MDL	PQL	MCL	Qual	Units	Date Analyzed NELAP
Surr: tetrachloro-m-xylene		88.0	NA	19.49-150	NA		%REC	11/26/2014 1:03 PM

Notes:

Insufficient sample was available to prepare and analyze a matrix spiked quality control sample. Accuracy assessment was based on a lab control sample.

SEMIVOLATILE ORGANIC CO	MPOLINDS		Method: F	PA 625 (19	1821	Analyst: JD	
Acenaphthene		NA.	0.0102	NA NA			PAVA
Anthracene	ND.		0.0102	NA NA	mg/L	11/25/2014 8:00 PM	
	ND	NA.			mg/L	11/25/2014 8:00 PM	PAVA
Benzo(a)anthracone	ND	NA	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
Benzidine	ND	NA	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
Benzo(a)pyrene	ND	NA.	0.0102	NA	rng/L	11/25/2014 8:00 PM	PAVA
Benzo(b)fluoranthene	ND	NA	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
Berizo(k)fluoranthene	ND	NA	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
Bis(2-chloroethyl)ether	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
Bis(2-chlorolsopropyl)ether	ND	NA	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PAVA
Bis(2-ethylhexyl)phthalate	ND	NΛ	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PAVA
Butyl benzyl phthalate	ND	NA	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PAVA
2 Chloronaphthalane	NO	NA	0.0102	NA	mg/L	11/25/2014 8:00 PM	PA
2-Chloronaphthalene	ND	NA	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PAVA
2-Chlorophenol	ND	NA	0.0102	NA	mg/L	11/25/2014 B:00 PM	PAVA
Chrysene	ND	NA	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PANA
Dibenz(a,h)anthracene	ND	NA	0.0102	NA ·	mg/L	11/25/2014 8:00 PM	PAVA
DI-n-butyl phthalate	ND	NA	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PAVA
1,2-Dichlorobenzene	ND	NA	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PA
1,3-Dichlorobenzene	, ND	NA	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PA
1,4-Dichlorobenzone	ND	NA:	0.0102	NA	mg/L	11/25/2014 8:00 PM	PA
3,3'-Dichlorobenzidine	ND	NA	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PAVA
2,4-Dichlorophenol	ND	NA.	0.0102	NA.	mg/L	11/25/2014 8:00 PM	PAVA
Diethyl phthalate	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
2.4-Dimethylphenol	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
Dimethyl phthalate	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
4,6 Dinitro-2-methylphenol	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
2,4-Dinitrophenol	ND	NA	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
2,4-Dinifrotoluene	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM	PA/VA
Fluoranthene	ND	NA	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA
Fluorene	ND	NA	0.0102	NA	mg/L	11/25/2014 8:00 PM	PAVA

WO#: 1411N39

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1411N39-02A

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11/19/2014 8:30:00 AM

Date Received:

11/19/2014

Matrix:

Liquid

Site ID:

ELKTON, VA

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed N	IELAP
Hexachlorobenzene	NO	NA:	0.0102	NA.		mg/L	11/25/2014 8:00 PM	PAVA
Hexachiorobutadiene	ND	NA	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
Hexachlorocyclopenladiene	ND	NA	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
Hexachloroethane	ND	NA	0.0102	NA.		mg/L	11/25/2014 8:00 PM	PAVA
Indeno(1,2,3-cd)pyrene	ND	NA	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
Isophorone	ND	NA.	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
Nitrobenzene	ND	NA.	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
N-Nitrosodi-n-propylamine	ND	NA	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
N-Nitrosodimethylamine	ND	NA.	0.0102	NA		mg/l	11/25/2014 8:00 PM	PAVA
N-Nitrosodiphenylamine	ND	NA:	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
Pentachiorophenol	ND	NA.	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
Phonol	ND	NA	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
Pyrene	ND	NA	0.0102	NA		mg/L	11/25/2014 8:00 PM	PANA
1,2,4-Trichlorobenzone	ND	NA	0.0102	NA.		mg/L	11/25/2014 8:00 PM	PAVA
2,4,6-Trichlorophenol	ND	NA ·	0.0102	NA		mg/L	11/25/2014 8:00 PM	PAVA
Surr: 2-Fluorophenol	41.1	NA	25.9-110	NA		%REC	11/25/2014 8:00 PM	
Surr: Phenol-d5	29.9	NA	8.2-110	NA.		%REC	11/25/2014 8:00 PM	
Surr: Nitrobenzene-d5	79.6	NA.	62.2-110	NA		%REC	11/25/2014 8:00 PM	
Surr: 2-Fluorobiphenyl	87.5	NA	54.6-110	NA.		%REC	11/25/2014 8:00 PM	
Surr: 2,4,6-Tribromophenol	72.1	NA	61.7-110	NA.		%REC	11/25/2014 8:00 PM	
Surr: 4-Terphenyl-d14	94.5	NA	10.7-110	NA		%REC	11/25/2014 8:00 PM	

Notes:

The CCV for Hexachlorocyclopentadiene exceeded REIC control limits indicating a high bias. Since the analyte result was ND, this exceedence does not adversely impact data usability.

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SEMIVOLATILE ORGANIC COM	MPOUND\$		Method: S	W8270D (2007)	Analyst: JD
Chloropyrtfos	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM
Demelon, Total	ND	NA ·	0.0102	NA	mg/L	11/25/2014 8:00 PM
Guthion	ND	NA	0.0102	NA .	mg/L	11/25/2014 8:00 PM
Kepone	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM
Malathion	ND	NA:	0.0102	NA	mg/l	11/25/2014 8:00 PM
Methoxychior	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM
Mirex	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM
Nonylphenol	ND	NA.	0.0102	NA	mg/L	12/4/2014 11:08 PM
Parathion	ND	NA	0.0102	NA	mg/L	11/25/2014 8:00 PM
1,2-Diphenylhydrazine	ND	NA.	0.0102	NA	mg/L	11/25/2014 8:00 PM
Surr: 2-Fluorophenol	41.1	NA	32.9-110	NA	%REC	11/25/2014 8:00 PM
Surr: Phenol-d5	29.9	NA	25.8-110	NA	%REC	11/25/2014 8:00 PM
Surr: 2,4,6-Tribromophenol	72.1	NA.	63.8-110	NA	%REC	11/25/2014 8:00 PM

WO#: 1411N39

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UTILITIES, INC-Massanutten PSA

Project:

MASSANUTTEN/ATTACHMENT A

1411N39-02A

Lab ID: Client Sample ID:

DAILY FINAL EFFLUENT GRAB

Collection Date:

11/19/2014 8:30:00 AM

Date Received:

11/19/2014 Liquid

Matrix: Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed N	ELAP
Surr: Nitroberusene-d5	79.6	NA	61.8-110	NA.		%REC	11/25/2014 8:00 PM	
Surr: 2-Fluorobiphenyl	87.5	NA.	58.6-110	NA		%REC	11/25/2014 8:00 PM	
Surr: 4-Terphenyl-d14	94,5	NA	55.1-110	NA.		%REC	11/25/2014 8:00 PM	
ACROLEIN BY E624			Method: E	EPA 624	ı		Analyst: JM	
Acrolein	ND	NA.	10	NA		µg/L	11/20/2014 2:54 PM	PAVA
VOLATILE ORGANIC COMPOUND	os		Method: E	EPA 624			Analyst: JM	
1,1,2,2-Tetrachloroethano	ND	NA.	1,00	NA.		μg/L	11/20/2014 2:54 PM	PAVA
1,1,2-Trichloroethane	ND	NA	1.00	NA.		µg/L	11/20/2014 2:54 PM	PAVA
1,1-Dichloroethene	ND	NA.	1.00	NA		ug/L	11/20/2014 2:54 PM	PA/VA
1,2-Dibromoothane	ND	NA	1.00	NA		µg/L	11/20/2014 2:54 PM	PA
1,2-Dichloroethene	ND	NA.	1.00	NA		µg/L	11/20/2014 2:54 PM	PAVA
1,2-Dichloropropane	ND	NA	1.00	NA		µg/L	11/20/2014 2:54 PM	PAVA
1,3-Dichloropropane	ND	NA	1.00	NA		µg/L	11/20/2014 2:54 PM	
Acrylonitrile	ND	NA	10.0	NA		µg/L	11/20/2014 2:54 PM	PAVA
Benzene	ND	NA	1.00	NA		µg/L	11/20/2014 2:54 PM	PANA
Bromochloromethane	ND	NA	1.00	NA		µg/L	11/20/2014 2:54 PM	PA
Bromodichloromethane	ND	NA	1.00	NA		pg/L	11/20/2014 2:54 PM	PAVA
Bromoform	ND	NA.	1.00	NA		µg/L	11/20/2014 2:54 PM	PANA
Bromomethane methyl bromide	ND	NA-	1.00	NA		µg/L	11/20/2014 2:54 PM	PANA
Carbon tetrachloride	ND	NA.	1,00	NA		µg/L	11/20/2014 2:54 PM	PAVA
Chlorobenzene	ND	NA.	1,00	NA		µg/L	11/20/2014 2:54 PM	PAVA
Chloroform	ND	NA	1.00	NA		µg/t	11/20/2014 2:54 PM	PAVA
Dibromochloromethane	ND	NA	1.00	NA		µg/L	11/20/2014 2:54 PM	PAVA
Ethylbenzene	ND	NA.	1.00	NA		ug/L	11/20/2014 2:54 PM	PAVA
Methylene chloride	ND	NA.	1.00	NA.		pg/L	11/20/2014 2:54 PM	PAVA
Tetrachioroethene	ND	NA.	1.00	NA		μg/L	11/20/2014 2:54 PM	PAVA
Toluene	ND	NA	1.00	NA		µg/L	11/20/2014 2:54 PM	PAVA
trans-1,2-Dichloroethene	ND	NA	1.00	NA		µg/L	11/20/2014 2:54 PM	PAVA
Trichloroethene	ND	NA	1.00	NA		µg/L	11/20/2014 2:54 PM	PAVA
Vinyl chloride	ND	NΛ	1.00	NA		μg/l.	11/20/2014 2:54 PM	PAVA
Surr: 1,2-Dichloroethane-d4	104	NA	68.7-129	NA		%REC	11/20/2014 2:54 PM	
Surr: 4-Bromofluorobenzene	98.6	NA	71.8-127	NA		%REC	11/20/2014 2:54 PM	
Surr: Dibromofluoromethane	108	NA	74.3-124	NA		%RFC	11/20/2014 2:54 PM	
Surr: Toluene-d8	93.3	NA	71.4-129	NA		%REC	11/20/2014 2:54 PM	

WO#: 1411N39

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Client: Project: UTILITIES, INC-Massanullen PSA MASSANUTTEN/ATTACHMENT A

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Collection Date: 11/19/2014 8:30:00 AM

Lab ID:

1411N39-02A

Ma

Matrix:

11/19/2014 Liquid

Client Sample ID:

DAILY FINAL EFFLUENT GRAB

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed N	ELAP
SULFIDE			Method:	SW9034	4 (1996)		Analyst: CC	
Suffide (As S)	ND	NA	1.00	NA		mg/L	11/25/2014 5:05 PM	
HEXAVALENT CHROMIUM BY IC			Method: EPA 218.6, Rev. 3.3 (1994)				Analyst: CF	
Chromium (VI)	ND	NA	0.0010	NA		mg/L	11/20/2014 3:41 PM	PAVA
CYANIDE, Free		Method: SM4500-CN I-1997				Analyst: JH		
Cyanide, Free	ND	NA.	0.020	NA		mg/L	11/24/2014 11:38 AM	

WO#: 1411N39

Date Reported: 12/9/2014

Client:

UTILITIES, INC-Massanutten PSA

Project: Lab ID:

MASSANUTTEN/ATTACHMENT A

1411N39-02B

Client Sample ID:

DAILY FINAL EFFLUENT GRAB

Collection Date: 11/19/2014 8:30:00 AM

Date Received:

11/19/2014 Liquid

Matrix: Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed NELAP	
DISSOLVED METALS BY ICP-MS	Method: EPA 200.8 Rev. 5.4 (1994)					Analyst: LF		
Antimony	ND	NA	0.0010	NA		mg/l	12/2/2014 1:29 PM	PAVA
Arsenic	ND	NA	0.0050	NA		mg/L	12/2/2014 1:29 PM	PAVA
Cedmium	ND	NA	0.0010	NA		mg/L	12/2/2014 1:29 PM	PAVA
Chromium	ND	NA.	0.0050	NA		mg/L	12/2/2014 1:29 PM	PAVA
Copper	0.0124	NA:	0.0050	NA		mg/L	12/2/2014 1:29 PM	PAVA
Lead	ND	NA	0.0010	NA		mg/L	12/2/2014 1:29 PM	PAVA
Nickel	ND	NA	0.0100	NA		mg/L	12/2/2014 1:29 PM	PAVA
Silver	ND	NA	0.0050	NA.		mg/L	12/2/2014 1;29 PM	PAVA
Thaillum	ND	NA	0.0010	NA		mg/L	12/2/2014 1:29 PM	PAVA
Zinc	0.0434	NA	0.0100	NΛ		mg/L	12/2/2014 1:29 PM	PAVA
MERCURY, Dissolved			Method: EPA 245.1, Rev. 3.0 (1994)		Analyst: CR			
Mercury .	ND	NA.	0.0010	NA		mg/L	12/4/2014 1:01 PM	

WO#: 1411N39

Date Reported: 12/9/2014

Client:

UTILITIES, INC-Massanutten PSA

Project:

MASSANUTTEN/ATTACHMENT A

Lab ID: Client Sample ID: 1411N39-03A TRIP BLANK Collection Date:

11/19/2014 8:30:00 AM

Date Received:

11/19/2014

Matrix: Site ID: Trip Blank

Site ID:	ELKTON, V
itte ID:	ELKTON,

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed N	ELAP
VOLATILE ORGANIC COMPOUND	S		Method:	EPA 62	4		Analyst: JM	
1,1,2,2-Tetrachloroethane	ND	NA	1.00	NA		µg/L	11/25/2014 1:01 AM	PANA
1,1,2-Trichloroethane	NO	NA.	1.00	NA		µg/L	11/25/2014 1:01 AM	PAVA
1,1-Dichloroethane	ND	NA	1.00	NA		µg/L	11/25/2014 1:01 AM	PAVA
1,2-Dibromosthene	ND	NA	1.00	NA.		ug/L	11/25/2014 1:01 AM	PA
1,2-Dichloropropane	ND	NA.	1.00	NA		µg/L	11/25/2014 1:01 AM	PAVA
1,3-Dichloropropane	ND	NA.	1.00	NA		µg/L	11/25/2014 1:01 AM	
Acrylonitrile	ND	NA.	10.0	NA		µg/L	11/25/2014 1:01 AM	PANA
Benzene	ND	NA	1.00	NA		µg/L	11/25/2014 1:01 AM	PAVA
Bromochloromethane	ND	NA	1.00	NA		μg/L	11/25/2014 1:01 AM	PA
Bromodichlorumethane	ND	NA	1.00	NA		μg/L	11/25/2014 1:01 AM	PAVA
Bromotorm	ND	NA	1.00	NA		µg/L	11/25/2014 1:01 AM	PAVA
Bromomethane	ND	NA.	1.00	NA		μg/L	11/25/2014 1:01 AM	PAVA
Carbon tetrachloride	ND	NA	1.00	NA.		Ngu	11/25/2014 1:01 AM	PAVA
Chlorobenzane	ND	NA	1.00	NA		µg/L	11/25/2014 1:01 AM	PAVA
Chloroform	ND	NA.	1.00	NA		μg/L	11/25/2014 1:01 AM	PANA
Dibromochioromethane	ND	NA.	1.00	NA		pg/L	11/25/2014 1:01 AM	PAVA
Ethylbenzene	ND	NA	1.00	NA,		μg/L	11/25/2014 1:01 AM	PAVA
Methylene chloride	ND	NA	1.00	NA:		µg/L	11/25/2014 1:01 AM	PAWA
Tetrachioroethene	ND	NA	1.00	NA.		µg/L	11/25/2014 1:01 AM	PAVA
Toluene .	ND	NA.	1.00	NA.		µg/L	11/25/2014 1:01 AM	PAVA
trans-1,2-Dichloroethens	ND.	NA	1.00	NA		µg/L	11/25/2014 1:01 AM	PAVA
Trichloroethene	ND	NA	1.00	NA		µg/l	11/25/2014 1:01 AM	PANA
Vinyl chloride	ND	NA	1,00	NA		pg/L	11/25/2014 1:01 AM	PANA
Surr; 1,2-Dichloroethans-d4	101	NA	68.7-129	NA		%REC	11/25/2014 1:01 AM	
Surr: 4-Bramafluorobenzene	98.2	NA	71.8-127	NA		%REC	11/25/2014 1:01 AM	
Surr: Dibromofluoromethane	109	NA	74,3-124	NA.		%REC	11/25/2014 1:01 AM	
Surr: Toluene-d8	88.8	NA	71.4-129	NA		%REC	11/25/2014 1:01 AM	